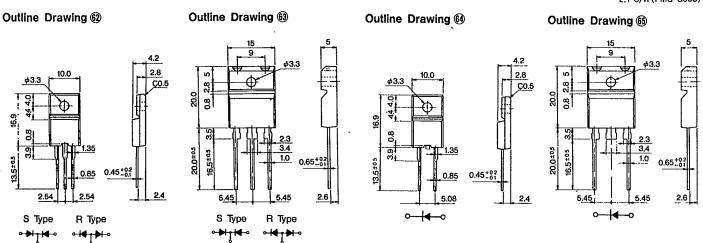
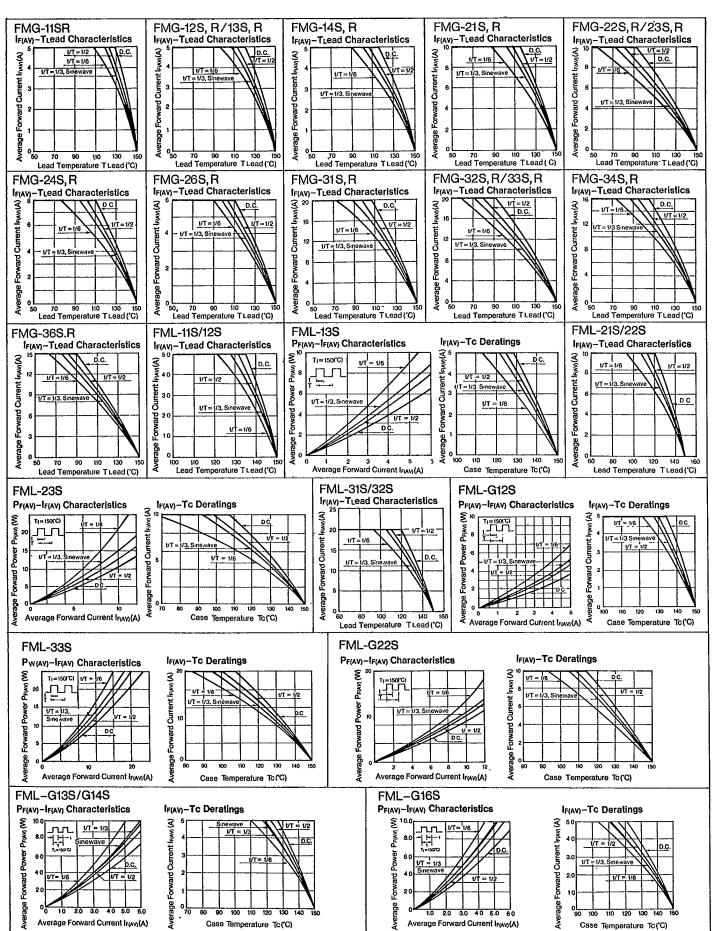
Ultra Fast Recovery Diodes VRM:100~600V □Io:5.0~20A

FMG/FML

Rating/	Absolute Maximum Ratings						Electrical Characteristics(Ta = 25°C)					Others					
Characteristics	V _{RSM} (V)	V _{RM} (V)	lo (A)	İFSM (A)	Tj Tstg (°C) (°C)		V _F (V)		IR (mA)	IR(H) (mA)	trr (µs)		Outline Drawing	Weight(g)	Taping	Note	
Type No.	per chip		With Fin	50Hz Sine Half Wave Single Pulse 10ms.			Max, perchip	l _F (A)	V _R =V _{RM} max (per chip)	V _R =V _{BM} ,Tj=150°C max (per chip)		l _F /l _{RP} (mA)	Outl	Weig	Tap	ž	
FMG-11S, R	100	100	5.0	35	−40~+150		1.3	•		1.5			€	2,1			
FMG-12S, R	200	200					1.8	2.5									
FMG-13S, R	300	300					1.0										
FMG-14S, R	400	400					2.0										
MG-21S, R	100	100	10	65 · 50		1.3		5.0	2.5	0.1	100/100						
MG-228, R	200	200				1.8	Ε̈́O										
MG-23S, R	300	300					5,0					€2	2.1				
MG-24S, R	400	400				2.0								ll			
FMG-26S, R	600	600	6.0			2.2	3,0		3.0]			
MG-31S, R	100	100	20	150			1,3									•	
FMG-32S, R	200	200				1.0	1.8 10	1.0	5.0			63	5.5		Š		
FMG-33S, R	300	300				1.0									3		
MG-34S, R	400	400	16				2.0									įį	
MG-36S, R	600	600	15	80		-40~+150		2.2	7.5							,	ď
FMG-G26S	600	600	4.0	50			2.5	4.0	III	3.0			64	2,1			
-MG-G36S	600	600	8.0	80			2.0	8.0	0.0			500/500	65	5.5			
FML-11S	100	100	5.0	35 40			0.98		0.15	0.5 0.04					ğ		
FML-12S	200	200				0.30	2.5	0.15	0.5	0.04				÷ T			
FML-13S	300	300					1,3	2.0	0.05	0.25	0.05	0.05	60	2.1		Ę	
FML-14S	400	400								0.1	0.03					ű	
FML-21S	100	100	10	65			0.98		0.25	1.0	0.04	4 100/100					
FML-22S	200	200				l 1	5.0	0.25	1.0	0.04	100,100						
FML-23S	300	300		70		1.	13	1.3	0.1	0.5	0.05						
FML-24S	400	400								0.2	0.00]]		
FML-31S	100	100	20	150			0.98		0.6	2.0	0.04	500/500		5.5			
FML-32S	200	200						10									
FML-33S	300	300					1.3			1.0	0.05						
FML-34S	400	400			4					0.4		300,000]		
FML-G12S	200	200	5.0	65			0.98	5.0	0.25	1.0	0.04		64				
FML-G13S	300	300		70			1.3			0.2	100/100	64 2					
FML-G14S	400	400					1.5	0.1		0.05			2.1				
FML-G16S	600	600	<u> </u>	50					0.5		500/500						
FML-G22S	200	200	10	150			0.98	10	0,5	2.0	0.04	100/100	64	<u>5</u> 4)			

Therminal Resistance Rth(j-c) max : 4.2°C/W (FMG-G26S) 2.1°C/W (FMG-G36S)

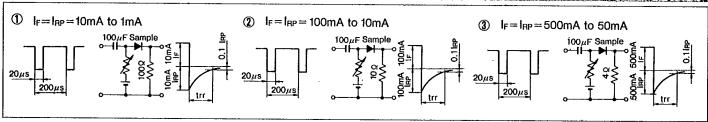




Symbols/trr Measurement Circuit

Symbols Peak Reverse Surge Voltage V_{RSM} **IRSM** Peak Reverse Surge Current Tstg Storage Temperature Peak Reverse Voltage V_{RM} Reverse Current lĸ trr Reverse Recovery Time V_{P-P} Reverse Voltage (Peak to Peak) PP Peak Reverse Current Ct Total Capacitance Between Terminals Reverse Voltage ٧ĸ IR(H) Reverse Current (High Temperature) Rth(j-c) Thermal Resistance, Junction V_F Forward Voltage Ιz Avalanche Current to Case . rz Temperature Coefficient of Vв Breakdown Voltage Allowable Avalanche Current **IZSM** Breakdown Voltage Average Rectified Forward Current Ta Ambient Temperature Equivalent Resistance of Rz Breakdown Region Forward Current lF Τj Junction Temperature Average Forward Power PF(AV) IF(AV) Average Forward Current Topr **Operating Ambient Temperature** Dissipation l²t I2t limiting Value Peak Forward Surge Current **IFSM** Tc Case Temperature

Reverse Recovery Time Measurement Circuit

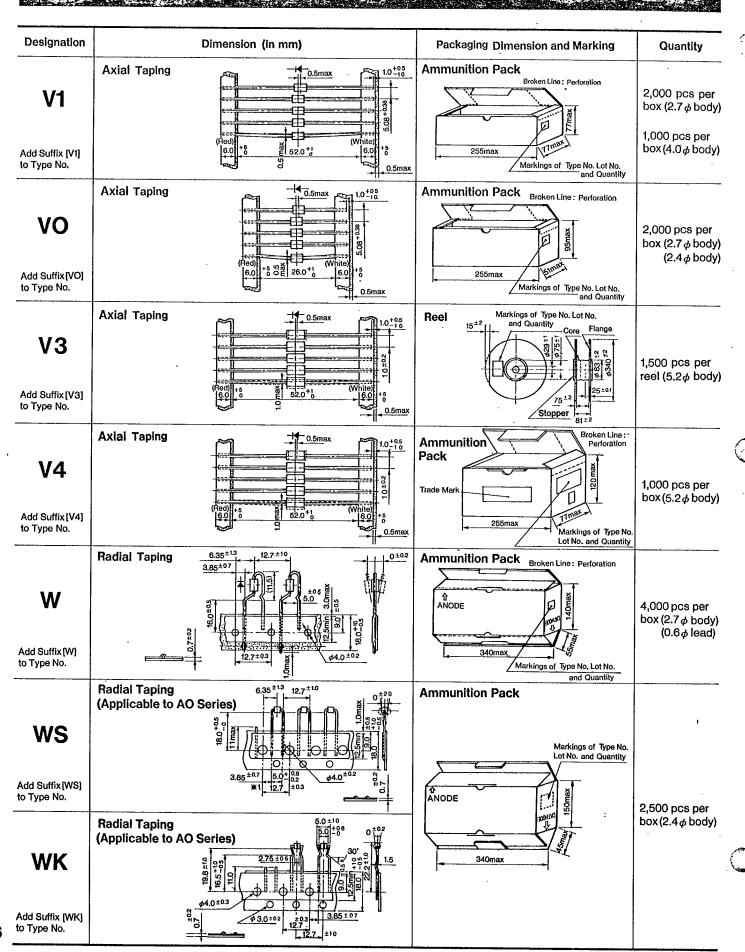


Taping Specifications

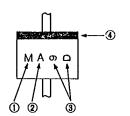
Excluding High Voltage Diodes

Designation	Dimension (in mm)	Packaging Dimension and Marking	Quantity
V	Tape Carrier Method $4.5^{\pm 0.2}$ $4.0^{\pm 0.1}$ $5.1^{\pm 0.1}$ $1.5^{\pm 0.2}$ Direction to pull out $4.0^{\pm 0.1}$	Reel Marking of Type No., Lot No. and Quantity	1,800 pcs per reel
Add Suffix [V] to Type No.	(1) Flight side of taping direction is cathode. (2) Place electrode side down when casing. (3) Provide leader tape of 150~200mm at beginning of tape. (4) Provide space of more than 10 pitches each for beginning and end of tape.	φ178 ^{±2} ±15 14 2.0 ^{±05}	
V	Axial Taping	Markings of Type No. Lot No. 15 ^{±2} Markings of Type No. Lot No. 25 27 27 27 27 27 27 27 27 27	5,000 pcs per reel (2.7 φ body
Add Suffix [V] to type No.	(Red) +5 (White) + 6.0 +5 (S.0+6) (White) + 6.0 +5 (S.0+6) (O.5max	75 ± 2 25 ± 0 1	3,000 pcs per reel (4.0 φ body

Laping Specifications



MSmall TMD



①Type Designation (in abbreviation) AM01 is abbreviated as M.

②Class Designation

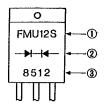
Z:200V. No Letter: 400V. A:600V

③A: Year (Last Number of AD Year)

B:Month (Jan. to Sept. are represented by numbers 1 to 9 respectively, and Oct., Nov., and Dec. are abbreviated as O, N and D respectively)

AU02 Type is Non-Successive Band.

6T0220 Type (FM or CT Type)

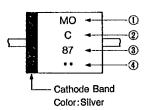


①Type Designation Show FMU-12S as FMU12S. @Polarity:Rectifier Symbols 3 Lot Number (Laser Marking)

: Year (Last Number of AD Year) : Month (0~9, 0, N, D)

3rd, 4th; Day

ME/EO Type TMD



①Type Designation (in abbreviation)

EM01 is abbreviated as MO, EM2 is abbreviated as M2.

2Class Designation

Z:200V, No Letter:400V, A:600V

B;800 V, C:1000V, F:1500V

However, EU02A to be marked 2A, and EU2YX to be marked Y.

③Abbreviations Representing Production Period

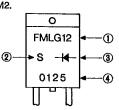
A: Year (Last Number of AD Year)

B:Month (1~9, 0, N, D)

Production Period Divided in 3 ten day terms

• : 1st 10days •• : 2nd 10days ••• : 3rd 10days

ZTO220 Type (FM or CT Type, single chip)

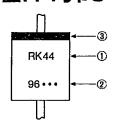


①Type Designation:Omit Last Letter Show FML-G12S as FMLG12. ②Last Letter of Type Designation ③Polarity: Recitifier Symbols

: Year (Last Number of AD Year) : Month (0~9, 0, N, D)

3rd, 4th: Day

BR Type TMD



①Type Designation:Mark in 2 sets @Production Period: Mark in 4 sets

A: Year (Last Number of AD Year)

B:Month (1~9, 0, N, D)

③Production Period Divided in 3 ten day terms

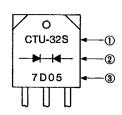
• : 1st 10days •• : 2nd 10days ••• ; 3rd 10days

Yellow: For Middle Speed

Red : For High Speed and Ultra-High Speed

BTO3P Type (FM or CT Type)

10/15 Type



Type shown in full designation However, CTB-34/34S/34M are marked as CTB-34, CTU-G3DR is marked as CTUG3DR. @Polarity:Rectifier Symbols

3Lot Number:

1) M, U, G and L Types

First Number : Last Digit of AD Year

Second Number : Month

Third and Fourth Numbers; Day

Fifth Number : None

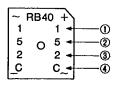
2) For types CTB-34/34S/34M, the fifth letter shows type designation. If no fifth number, the type is CTB-33 or CTB-34.

Marking Color: Silver

21 RB 40/60

(RB40 Series)

(RB60 Series)



(I)Peak Reverse Voltage Designation

1, 2, 4, 6, C

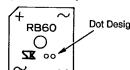
Production Period

②Year (Last Number of AD Year)

③Month (1~9, 0, N, D)

C: 3rd 10days

Color Designation: Silver



Dot Designation RB601 Violet

RB602 No Color RB604 Blue

RB606 White

A: 1st 10days, B: 2nd 10days 159174 ①MI-10/15 is die-stamped on the top of the case.

@Rectifier Symbols

3Lot Number:

First Number (Letter) :Peak Reverse Voltage: 0=50V, 1=100V, 2=200V,

4=400V, 6=600V, C=1000V

Second Number ; Last Digit of AD Year

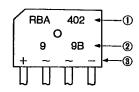
Third Number :Month

Fourth and Fifth Numbers: Day

Sixth Number :Production number and

U:Voltage Doubler Type

BRBV/RBA



①Type Designation 2Lot Number

1st : Year (Last Number of AD Year)

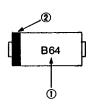
2nd: Month (1~9, 0, N, D)

3rd : Divided 1~3 ten day Terms

A: 1st 10 days B; 2nd 10 days C: 3rd 10 days

③In-Put Designation

MSFP Type



()Type Designation: SFPB-64 is abbreviated at B64,

②Cathode Band