

U16D05C – U16D60C

16A GLASS PASSIVATED DUAL SUPEFAST RECTIFIER

Е

Max

3.50

5.30

23.00

3.20

0.85

16.20 2.70

3.65 Ø

4.50

5.65

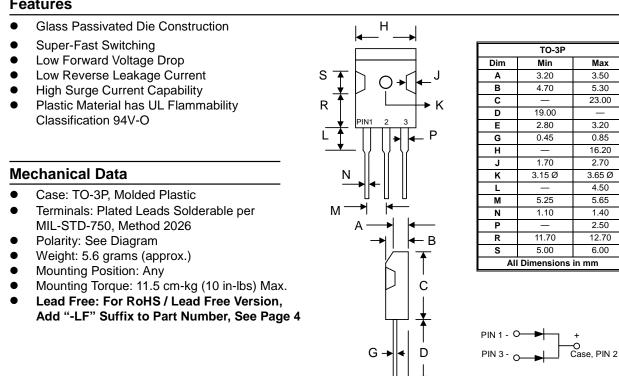
1.40

2.50

12.70

6.00

Features



Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	U16D 05C	U16D 10C	U16D 15C	U16D 20C	U16D 30C	U16D 40C	U16D 50C	U16D 60C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	150	200	300	400	500	600	v
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	350	420	V
Average Rectified Output Current @T _c = 100°C	ю				1	6				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200						А		
Forward Voltage $@I_F = 8.0A$	Vfm		0.9	975		1	.3	1.	.7	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	10 500						μA		
Reverse Recovery Time (Note 1)	trr	35 50					nS			
Typical Junction Capacitance (Note 2)	Cj	120 70				0	pF			
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +150					°C			

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

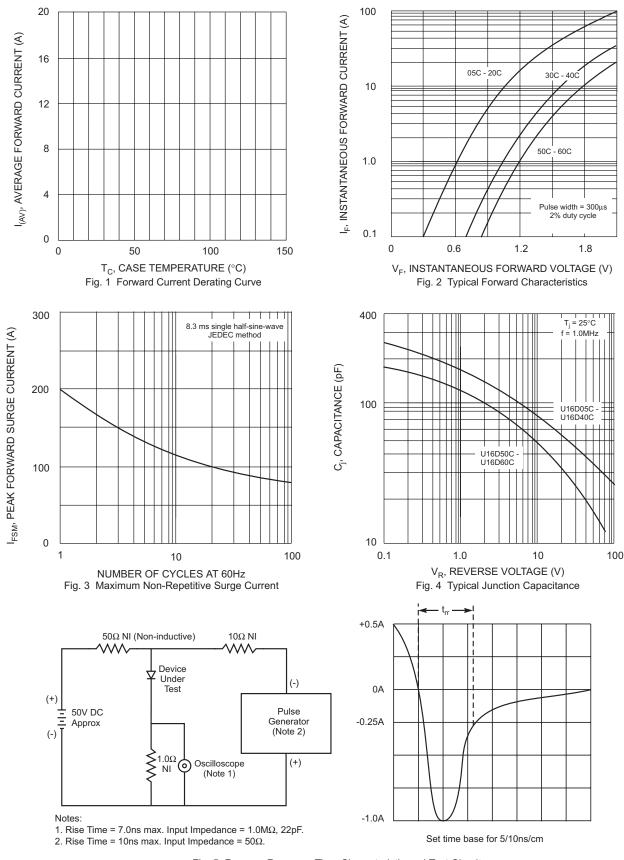
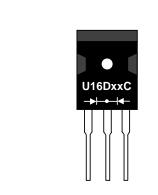


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

MARKING INFORMATION



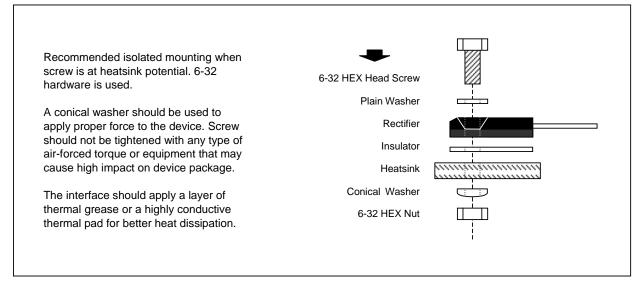
U16DxxC = Device Number xx = 05, 10, 15, 20, 30, 40, 50 or 60 Polarity = As Marked on Body

PACKAGING INFORMATION

BULK								
L	Tube Size x W x H (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)	
ę	505 x 46 x 6.5	30	520 x 145 x 95	1,200	540 x 306 x 115	2,400	18.0	

Note: 1. Anti-static tube, water clear color.

RECOMMENDED SCREW MOUNTING ARRANGEMENT



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity			
U16D05C	TO-3P	30 Units/Tube			
U16D10C	TO-3P	30 Units/Tube			
U16D15C	TO-3P	30 Units/Tube			
U16D20C	TO-3P	30 Units/Tube			
U16D30C	TO-3P	30 Units/Tube			
U16D40C	TO-3P	30 Units/Tube			
U16D50C	TO-3P	30 Units/Tube			
U16D60C	TO-3P	30 Units/Tube			

1.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, U16D05C-LF. 2.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410 Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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