

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth

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MMBD4448

Surface Mount Switching Diode 350mW

Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)

Mechanical Data

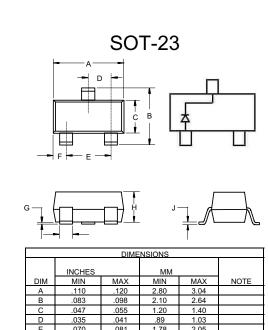
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Polarity: See Diagram
- Marking: KA3

Maximum Ratings @ 25°C Unless Otherwise Specified

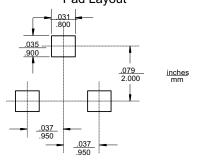
Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Volt.	V_{RM}	100	V
Peak Repetitive Reverse Voltage	Vrrm		
Working Peak Reverse Voltage	VRWM	75	V
DC Blocking Voltage	VR		
RMS Reverse Voltage	V _R (RMS)	53	V
Forward Continuous Current(Note1)	I _{FM}	500	mA
Average Rectified Output Current	lo	250	mA
Non-Repetitive Peak @ t<=1.0s	Iгsм	2	Α
Forward Surge Current @ t=1.0us		4	Α
Power Dissipation(Note 1)	Pd	350	mW
Thermal Resistance(Note 1)	R	357	K/W
Operation/Storage Temp. Range	Тj, Тsтg	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Charateristic	Symbol	Min	Max	Unit	Test Cond.
		0.62	0.72		I _F =5.0mA
Maximum Forward	Vғм		0.855	V	I⊧=10mA
Voltage Drop			1		I⊧=100mA
			1.25		I _F =150mA
			2.5	uA	V _R =75V
Maximum Peak	Iгм		50	uA	V _R =75V Tj=150°C
Reverse Current			30	uA	V _R =25V Tj=150°C
			25	nA	V _R =20V
Junction Capacitance	Cj		4	pF	V _R =0V, f=1.0MHz
Reverse Recovery Time	trr		4	ns	



DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.110	.120	2.80	3.04			
В	.083	.098	2.10	2.64			
O	.047	.055	1.20	1.40			
О	.035	.041	.89	1.03			
Е	.070	.081	1.78	2.05			
F	.018	.024	.45	.60			
Ð	.0005	.0039	.013	.100			
Τ	.035	.044	.89	1.12			
٦	.003	.007	.085	.180			
Κ	.015	.020	.37	.51			
Suggested Solder Pad Layout							

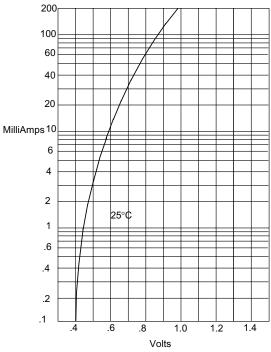


Note: 1. Valid provided that terminals are kept at ambient temperature

2. Trr Test Condition: IF=IR=10mA, Irr=0.1*IR, R=100 OHM

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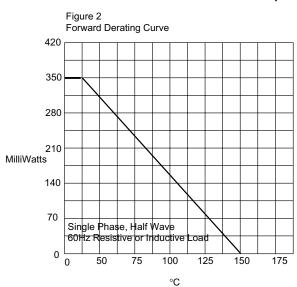
Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

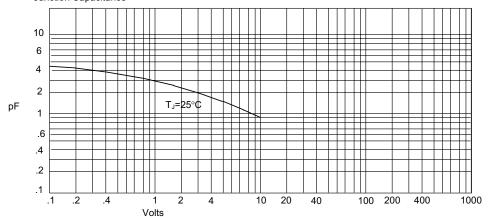
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Admissable Power Dissipation - MilliWattsversus Ambient Temperature - $^{\circ}$ C



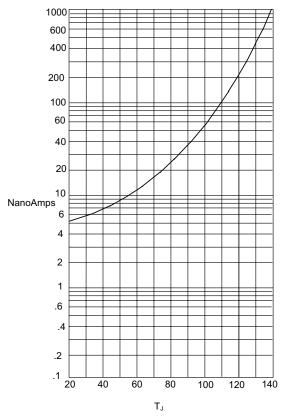


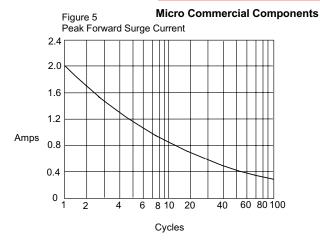
Junction Capacitance - pF*versus* Reverse Voltage - Volts

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Figure 4
Typical Reverse Characteristics





Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

T_A=25°C

Instantaneous Reverse Leakage Current - NanoAmperesersus Junction Temperature - °C



Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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