

Micro Commercial Components



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Features

- Halogen free available upon request by adding suffix "-HF"
- 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	VR(RMS)	53	V
Forward Continuous Current(Note1)	I _{FM}	500	mA
Average Rectified Output Current	lo	250	mA
Non-Repetitive Peak @ t<=1.0s	IFSM	2	А
Forward Surge Current @ t=1.0us		4	А
Power Dissipation(Note 1)	Pd	350	mW
Thermal Resistance(Note 1)	R	357	K/W
Operation/Storage Temp. Range	Тј, Тsтg	-55 to +150	°C

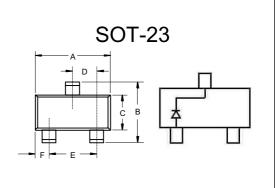
Electrical Characteristics @ 25°C Unless Otherwise Specified

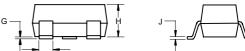
Charateristic	Symbol	Min	Max	Unit	Test Cond.
		0.62	0.72		I _F =5.0mA
Maximum Forward	Vfm		0.855	V	I⊧=10mA
Voltage Drop			1		l⊧=100mA
			1.25		l⊧=150mA
			2.5	uA	V _R =75V
Maximum Peak	Irm		50	uA	V _R =75V Tj=150°C
Reverse Current			30	uA	V _R =25V Tj=150°C
			25	nA	V _R =20V
Junction Capacitance	Cj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

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

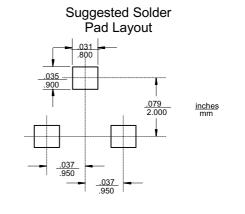
MMBD4448

Surface Mount Switching Diode 350mW

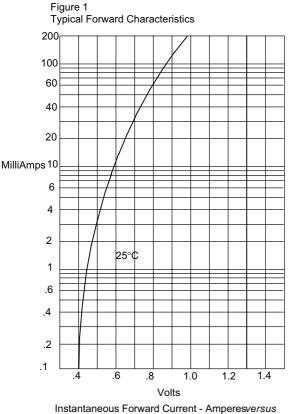




	DIMENSIONS						
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.110	.120	2.80	3.04			
В	.083	.104	2.10	2.64			
С	.047	.055	1.20	1.40			
D	.035	.041	.89	1.03			
E	.070	.081	1.78	2.05			
F	.018	.024	.45	.60			
G	.0005	.0039	.013	.100			
Н	.035	.044	.89	1.12			
J	.003	.007	.085	.180			
K	.015	.020	.37	.51			



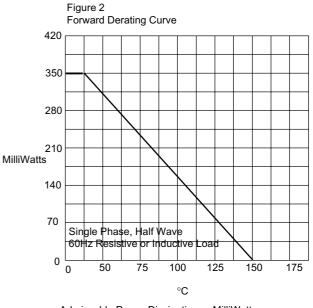
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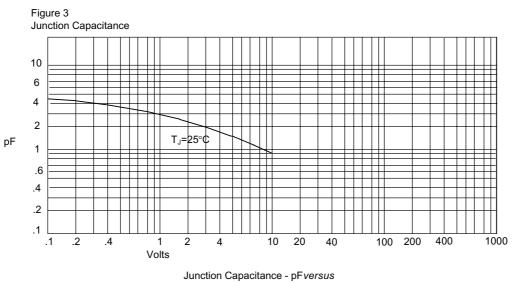
Instantaneous Forward Voltage - Volts



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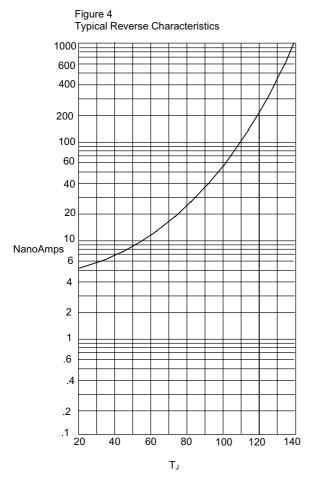
Admissable Power Dissipation - MilliWattsversus Ambient Temperature -°C

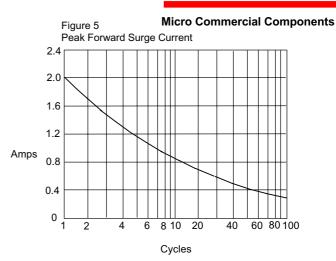


Reverse Voltage - Volts

MMBD4448







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	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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