

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MMBD4148

Features

- Low Current Leakage
- Low Cost
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Pin Configuration Top View



Marking: KA2, A2

Maximum Ratings

Operating Temperature: -55°C to +150°C
Storage Temperature: -55°C to +150°C

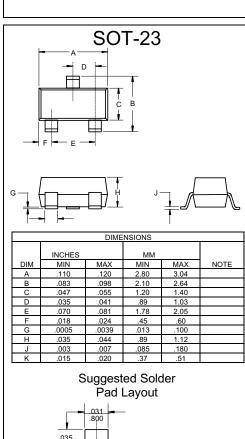
• Maximum Thermal Resistance; 357K/W Junction To Ambient

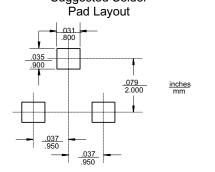
Electrical Characteristics @ 25°C Unless Otherwise Specified

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Reverse Voltage	V_R	75V	
Peak Reverse	V_{RM}	100V	
Voltage			
Average Rectified	Ιο	150mA	Resistive Load
Current			f > 50Hz
Power Dissipation	P _{TOT}	350mW	
Junction	T_J	150°C	
Temperature			
Peak Forward Surge	I_{FSM}	1A	t=1s,Non-Repetitive
Current			
Maximum			
Instantaneous	V_{F}	.855V	$I_{FM} = 10mA;$
Forward Voltage			T _J = 25°C*
Maximum DC			
Reverse Current At	I_R	25nA	T _J = 25°C
Rated DC Blocking			$V_{R} = 20 \text{ V}$
Voltage			
Typical Junction	C _J	2pF	Measured at
Capacitance		,	1.0MHz, V _R =0V
Reverse Recovery	T_{rr}	4nS	I _F =10mA
Time			$V_R = 6V$
			R_L =100 Ω

^{*}Pulse test: Pulse width 300 μ sec, Duty cycle 2%

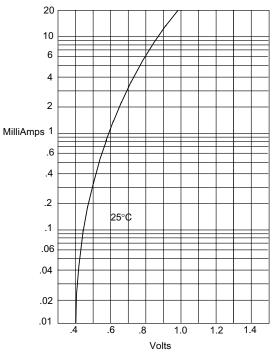
350mW 100 Volt Silicon Epitaxial Diode





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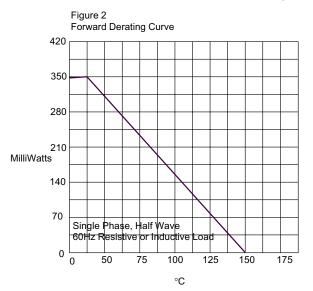
Figure 1 Typical Forward Characteristics



Instantaneous Forward Current - Amperes*versus* Instantaneous Forward Voltage - Volts

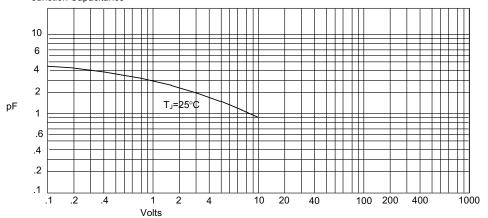
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Admissable Power Dissipation - MilliWattsversus Ambient Temperature - $^{\circ}C$

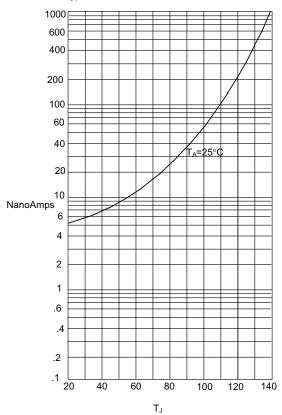




Junction Capacitance - pF*versus* Reverse Voltage - Volts

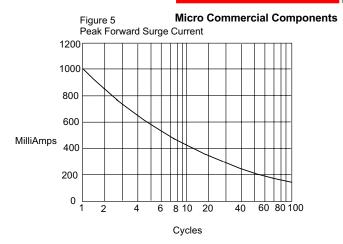
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Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - NanoAmpere**s**ersus Junction Temperature -°C

$\cdot M \cdot C \cdot C \cdot$



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



Ordering Information:

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

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