

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MMBD4148

Features

- Low Current Leakage
- Low Cost
- Case Material: Molded Plastic. UL Flammability Classificatio Rating 94-0 and MSL Rating 1





Maximum Ratings

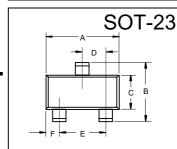
- Operating Temperature: -55°C to +150°C
 Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 357K/W Junction To Ambient

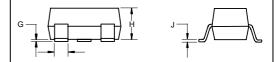
Electrical Characteristics @ 25°C Unless Otherwise Specified

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Reverse Voltage	V_R	75V					
Peak Reverse	V_{RM}	100V					
Voltage							
Average Rectified	Io	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			$T_{J} = 25^{\circ}C^{*}$				
Maximum DC							
Reverse Current At	I_R	25nA	T _J = 25°C				
Rated DC Blocking			$V_{R} = 20 \text{ V}$				
Voltage							
Typical Junction	CJ	2pF	Measured at				
Capacitance		·	1.0MHz, V _R =0V				
Reverse Recovery	T_{rr}	4nS	I _F =10mA				
Time			$V_R = 6V$				
			R _L =100Ω				

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

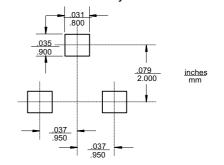
350mW 100 Volt Silicon Epitaxial Diode





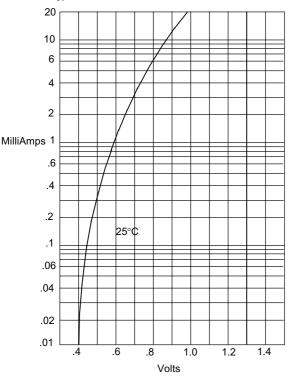
DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.110	.120	2.80	3.04		
В	.083	.098	2.10	2.64		
C	.047	.055	1.20	1.40		
D	.035	.041	.89	1.03		
Е	.070	.081	1.78	2.05		
F	.018	.024	.45	.60		
G	.0005	.0039	.013	.100		
Η	.035	.044	.89	1.12		
J	.003	.007	.085	.180		
K	.015	.020	.37	.51		

Suggested Solder Pad Layout



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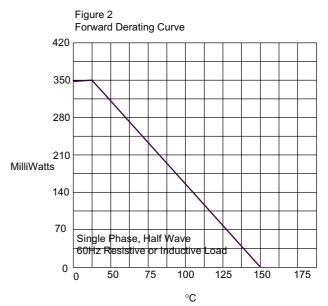
Figure 1
Typical Forward Characteristics



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

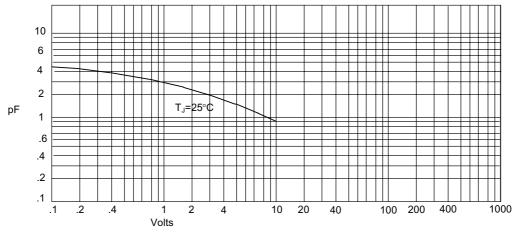
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Admissable Power Dissipation - MilliWattsversus Ambient Temperature -°C

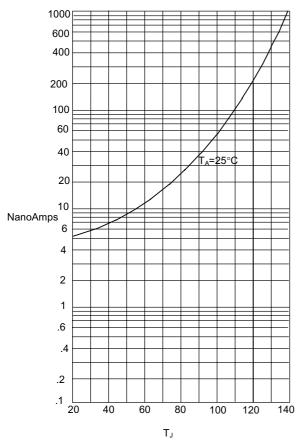
Figure 3
Junction Capacitance



Junction Capacitance - pF*versus* Reverse Voltage - Volts

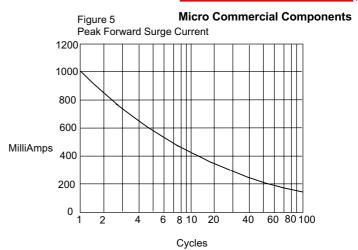
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Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - NanoAmpere ${\bf x}$ ersus Junction Temperature - °C





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



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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