Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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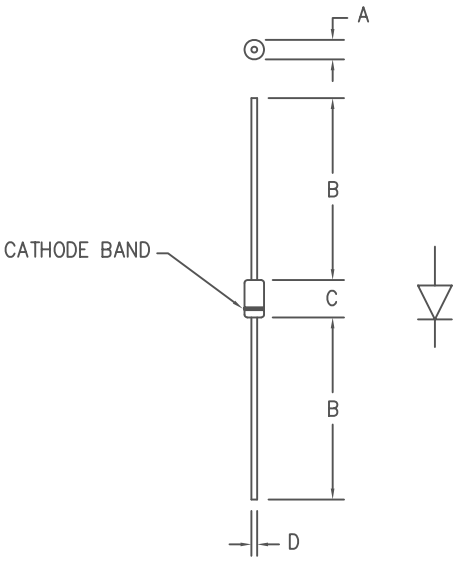
1 Amp Schottky Rectifier
MS104 – MS106



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	.081	.107	2.057	2.718	Dia.
B	1.10	---	27.94	---	
C	.160	.205	4.064	5.207	
D	.028	.034	.711	.864	Dia.

PLASTIC DO41

Microsemi Catalog Number	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
MS104		40V	40V
MS105	MBR150	50V	50V
MS106	MBR160 SR106	60V	60V

- Schottky Barrier Rectifier
- Guard Ring Protection
- 175°C Junction Temperature
- V_{RRM} 40 to 60 Volts

Electrical Characteristics

Average forward current	$I_{F(AV)}$ 1.0 Amps	T_L = 123°C Square wave, $R_{\theta JL}$ = 25°C/W, L = 1/4"
Maximum surge current	I_{FSM} 50 Amps	8.3ms, half sine, T_J = 175°C
Max peak forward voltage	V_{FM} .69 Volts	I_{FM} = 1.0A; T_J = 25°C*
Max peak reverse current	I_{RM} 100 µA	V_{RRM}, T_J = 25°C
Typical junction capacitance	C_J 53pF	V_R = 5.0V, T_J = 25°C

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

Thermal and Mechanical

Storage temperature range		T_{STG}	−55°C to 175°C
Operating junction temp range		T_J	−55°C to 175°C
Maximum thermal resistance	L = 1/4"	$R_{\theta JL}$	25°C/W Junction to Lead
Weight			.011 ounces (0.34 grams) typical

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05-17-07 Rev. 4

MS104 – MS106

Figure 1
Typical Forward Characteristics

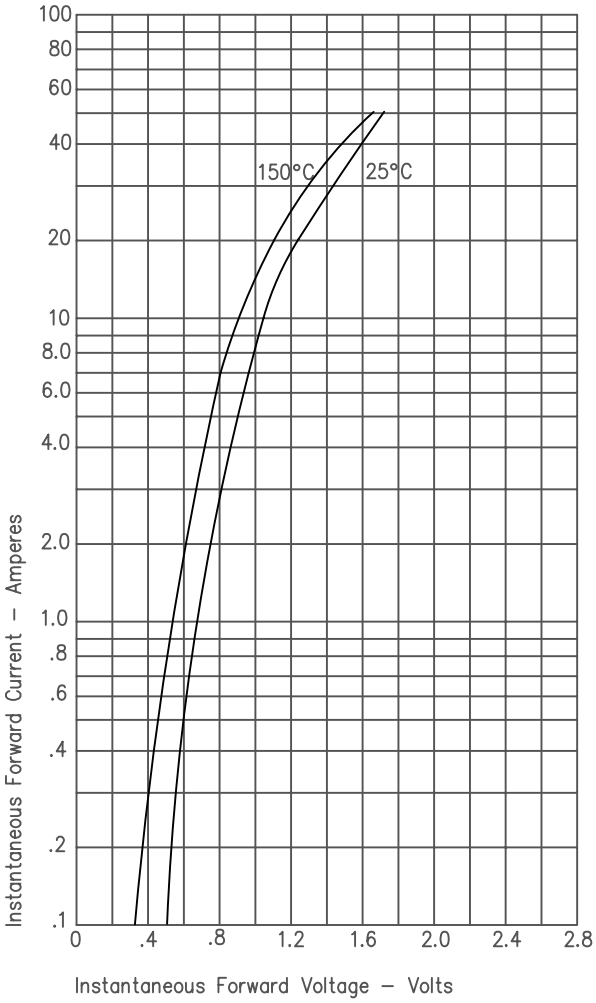

Figure 2
Typical Reverse Characteristics

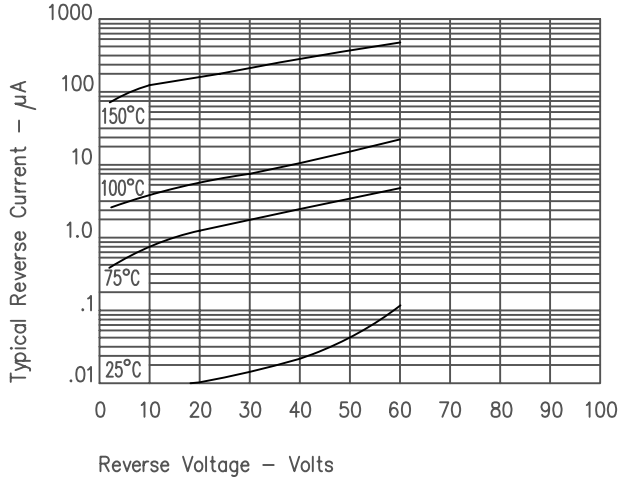

Figure 3
Typical Junction Capacitance