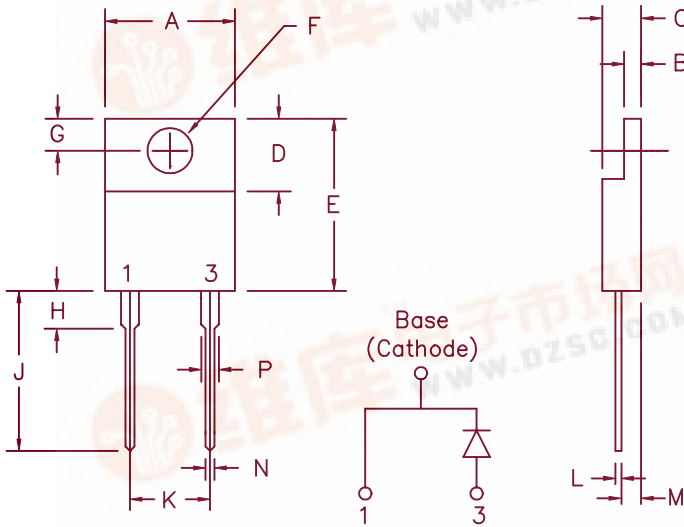


# 10 Amp Schottky Barrier Rectifiers MS1005, MS1006

查询MS1005供应商

通多邦, 专业PCB打样工厂, 24小时加急出货



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.390	.415	9.91	10.54	
B	.045	.055	1.14	1.40	
C	.180	.190	4.57	4.83	
D	.245	.260	6.22	6.60	
E	.550	.650	13.97	16.51	
F	.139	.155	3.53	3.94	Dia.
G	.100	.120	2.54	3.05	
H	---	.250	---	6.35	
J	.500	.580	12.70	14.73	
K	.190	.210	4.83	5.33	
L	.014	.025	0.35	0.63	
M	.080	.115	2.03	2.92	
N	.028	.038	0.71	0.96	
P	.045	.055	1.14	1.40	

Similar to TO-220AC

Microsemi Catalog Number

MS1005  
MS1006

Repetitive Peak Reverse Voltage

50V  
60V

Transient Peak Reverse Voltage

50V  
60V

- Schottky barrier rectifier
- Guard ring protection
- Low power loss, high efficiency
- VRRM 50 to 60 Volts
- Reverse energy tested

## Electrical Characteristics

Average Forward Current  
Maximum Surge Current  
Max. Peak Forward Voltage  
Max. Peak Forward Voltage  
Max. Peak Reverse Current  
Max. Peak Reverse Current  
Typical Junction Capacitance

$I_{F(AV)}$  10 Amps  
 $I_{FSM}$  225 Amps  
 $V_{FM}$  .53 Volts  
 $V_{FM}$  .67 Volts  
 $I_{RM}$  10 mA  
 $I_{RM}$  250  $\mu$ A  
 $C_J$  570 pF

$T_C = 158^\circ\text{C}$ , Square wave,  $R_{\theta JC} = 2.5^\circ\text{C/W}$   
8.3ms, half sine,  $T_J = 175^\circ\text{C}$   
 $I_{FM} = 10\text{A}$ ,  $T_J = 175^\circ\text{C}^*$   
 $I_{FM} = 10\text{A}$ ,  $T_J = 25^\circ\text{C}^*$   
 $V_{RRM}$ ,  $T_J = 125^\circ\text{C}^*$   
 $V_{RRM}$ ,  $T_J = 25^\circ\text{C}$   
 $V_R = 5.0\text{V}$ ,  $T_J = 25^\circ\text{C}$

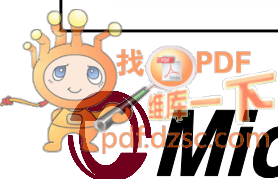
\*Pulse test: Pulse width 300  $\mu$ sec. Duty cycle 2%

## Thermal and Mechanical Characteristics

Storage temp range  
Operating junction temp range  
Max thermal resistance  
Mounting torque  
Weight

TSTG  
 $T_J$   
 $R_{\theta JC}$

$-55^\circ\text{C}$  to  $+175^\circ\text{C}$   
 $-55^\circ\text{C}$  to  $+175^\circ\text{C}$   
 $2.5^\circ\text{C/W}$   
8-12 inch pounds (6-32 screw)  
.08 ounces (2.3 grams) typical



COLORADO

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4-3-00 Rev. IR

# MS1005, MS1006

Figure 1  
Typical Forward Characteristics

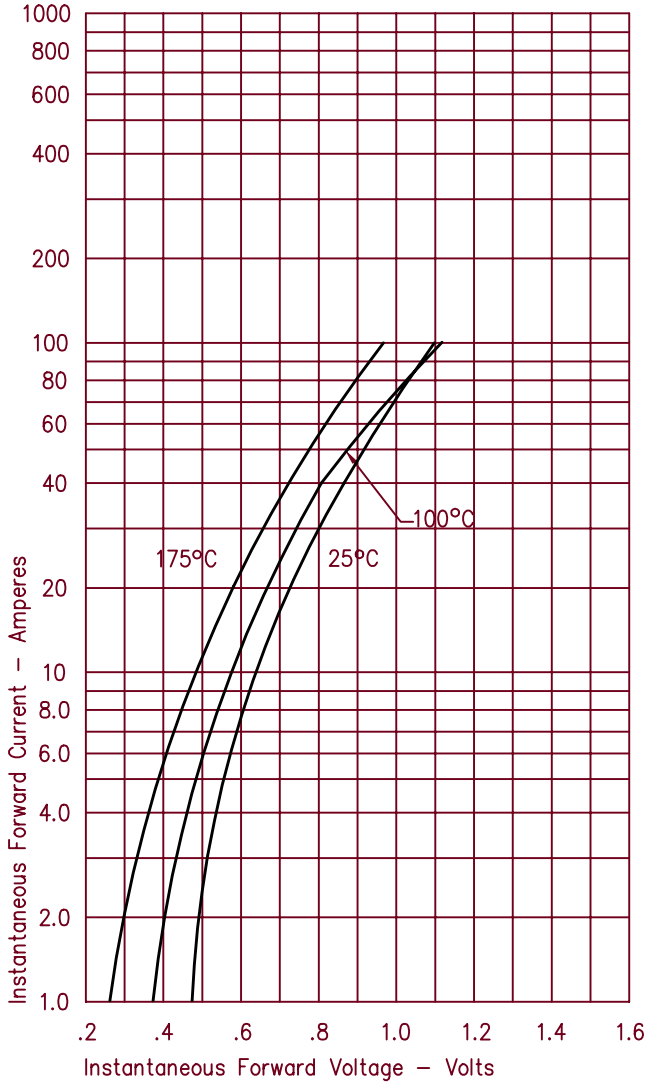


Figure 3  
Typical Junction Capacitance

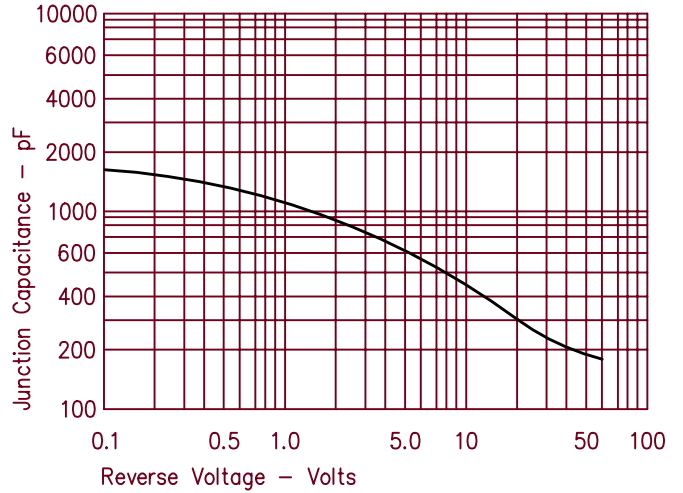


Figure 4  
Forward Current Derating

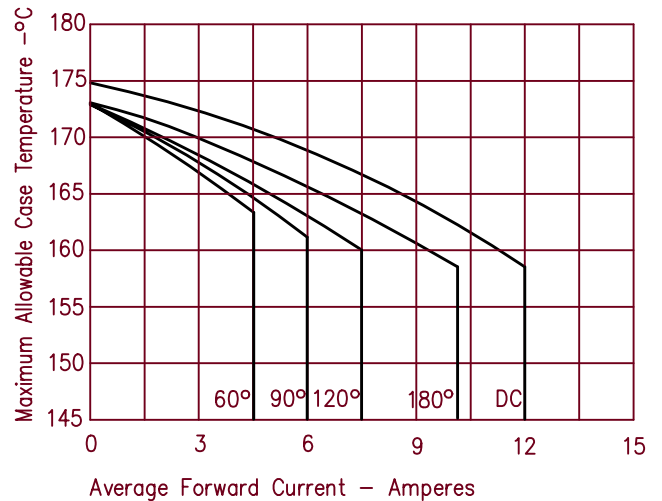


Figure 2  
Typical Reverse Characteristics

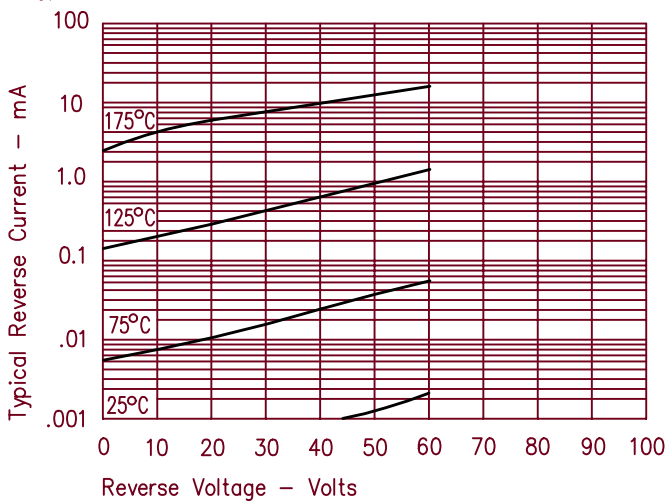


Figure 5  
Maximum Forward Power Dissipation

