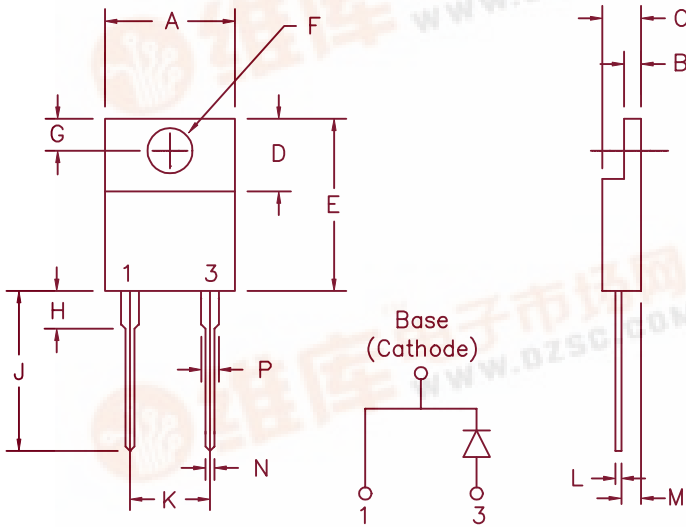


16 Amp Schottky Rectifiers
 MS1680 — MS16100

查询MS16100供应商

捷多邦, 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

MS1680
MS1690
MS16100

Repetitive Peak Reverse Voltage

80V
90V
100V

Transient Peak Reverse Voltage

80V
90V
100V

- Schottky barrier rectifier
- Guard ring protection
- Low power loss, high efficiency
- 175°C Junction Temperature
- Reverse energy tested
- V_{RRM} 80 to 100 Volts

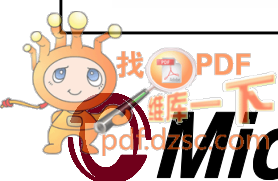
Electrical Characteristics

Average Forward Current	$I_F(AV)$ 16 Amps	$T_C = 149^\circ C$, Square wave, $R_{\theta JC} = 2.0^\circ C/W$
Maximum Surge Current	I_{FSM} 250 Amps	8.3ms, half sine, $T_J = 175^\circ C$
Max. Peak Forward Voltage	V_{FM} 65 Volts	$I_{FM} = 16A$, $T_J = 175^\circ C^*$
Max. Peak Forward Voltage	V_{FM} .85 Volts	$I_{FM} = 16A$, $T_J = 25^\circ C^*$
Max. Peak Reverse Current	I_{RM} 15 mA	V_{RRM} , $T_J = 125^\circ C^*$
Max. Peak Reverse Current	I_{RM} 500 μA	V_{RRM} , $T_J = 25^\circ C$
Typical Junction Capacitance	C_J 570 pF	$T_J = 25^\circ C$, $V_R = 5V$

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

Thermal and Mechanical Characteristics

Storage temp range	T_{STG}	$-55^\circ C$ to $175^\circ C$
Operating junction temp range	T_J	$-55^\circ C$ to $175^\circ C$
Max thermal resistance	$R_{\theta JC}$	$2.0^\circ C/W$ junction to case
Mounting torque		8-12 inch pounds (6-32 screw)
Weight		.08 ounces (2.3 grams) typical



COLORADO

800 Hoyt Street
Broomfield, CO. 80020
PH: (303) 469-2161
FAX: (303) 466-3775

4-4-00 Rev. 1

MS1680 — MS16100

Figure 1
Typical Forward Characteristics

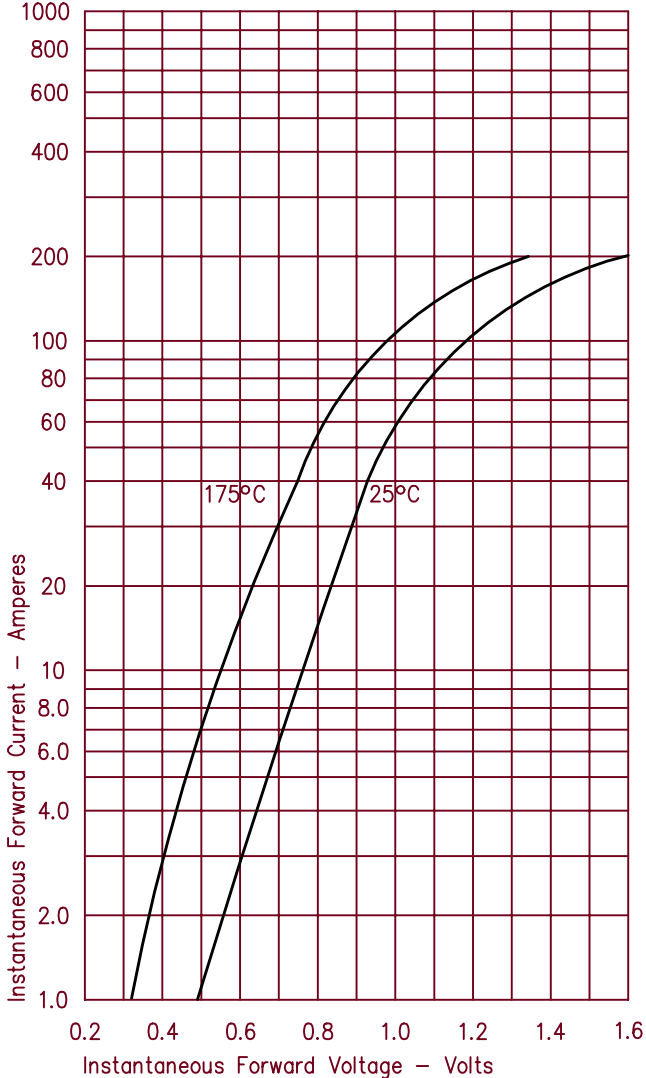


Figure 3
Typical Junction Capacitance

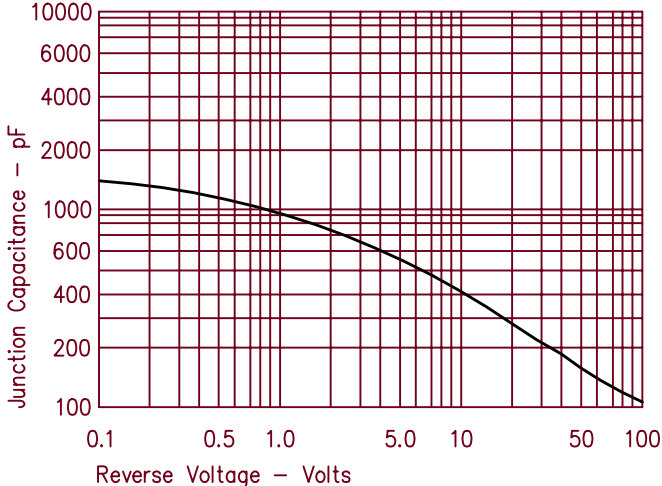


Figure 4
Forward Current Derating

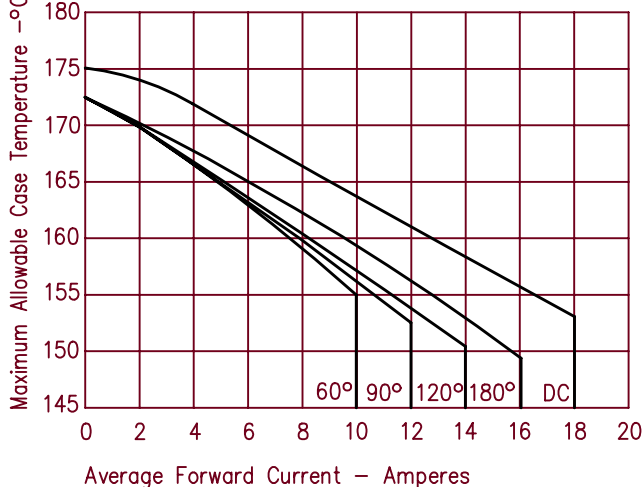


Figure 2
Typical Reverse Characteristics

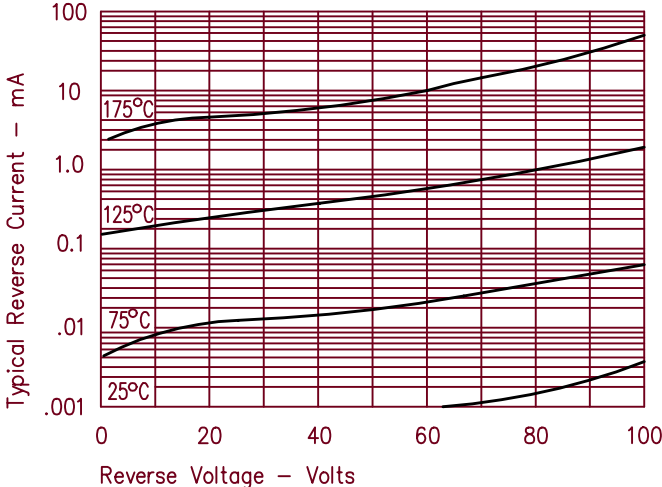


Figure 5
Maximum Forward Power Dissipation

