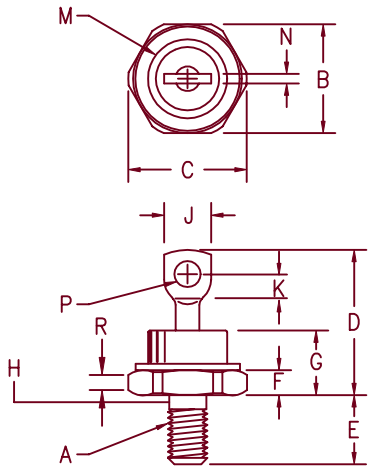
Military Schottky Rectifier

1N6392



Notes:
1. Full threads within 2 1/2 threads
2. Standard Polarity: Stud is Cathode

Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	---	---	---	---	1/4-28
B	.669	.688	17.00	17.47	
C	---	.794	---	20.16	
D	.750	1.000	19.05	25.40	
E	.422	.453	10.72	11.50	
F	.115	.200	2.93	5.08	
G	---	.450	---	11.43	
H	.220	.249	5.59	6.32	1
J	---	.375	---	9.52	
K	.156	---	3.96	---	
M	---	.667	---	16.94	Dia.
N	.025	.080	0.64	2.03	
P	.140	.175	3.56	4.44	Dia.
R	.060	---	1.53	---	

DO203AB (D05)

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
1N6392	45V	45V

- Schottky Barrier Rectifier
- Available in JAN, JANTX, JANTXV
- Mil-PRF-19500/554
- Low Forward Voltage
- 1000 Amps surge rating
- Reverse Energy Tested

Electrical Characteristics

Average forward current	$I_{F(AV)}$	60 Amps	T_C = 115°C, Square wave, $R_{\theta JC}$ = 1.0°C/W
Maximum surge current	I_{FSM}	1000 Amps	8.3 ms, half sine, T_J = 175°C
Max reverse energy	$I_{R(OV)}$	2 Amps	L = 260µH, ≤ 1% Duty cycle
Max peak forward voltage	V_{FM}	.51 Volts	I_{FM} = 10A; T_J = 25°C*
Max peak forward voltage	V_{FM}	.68 Volts	I_{FM} = 60A; T_J = 25°C*
Max peak forward voltage	V_{FM}	.82 Volts	I_{FM} = 120A; T_J = 25°C*
Max peak reverse current	I_{RM}	20 mA	V_{RRM}, T_J = 25°C
Max peak reverse current	I_{RM}	60 mA	V_{RRM}, T_J = 125°C*
Max peak reverse current	I_{RM}	600 mA	V_{RRM}, T_J = 175°C*
Maximum junction capacitance	C_J	3000 pF	V_R = 5.0V, T_J = 25°C

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

Thermal and Mechanical Characteristics

Storage temp range	T_{STG}	-55°C to 175°C
Operating junction temp range	T_J	-55°C to 175°C
Max thermal resistance	$R_{\theta JC}$	1.0°C/W Junction to case
Mounting torque		30 inch pounds maximum
Weight		.54 ounces (15.3 grams) typical

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3-7-00 Rev. 2

1N6392

Figure 1
Typical Forward Characteristics

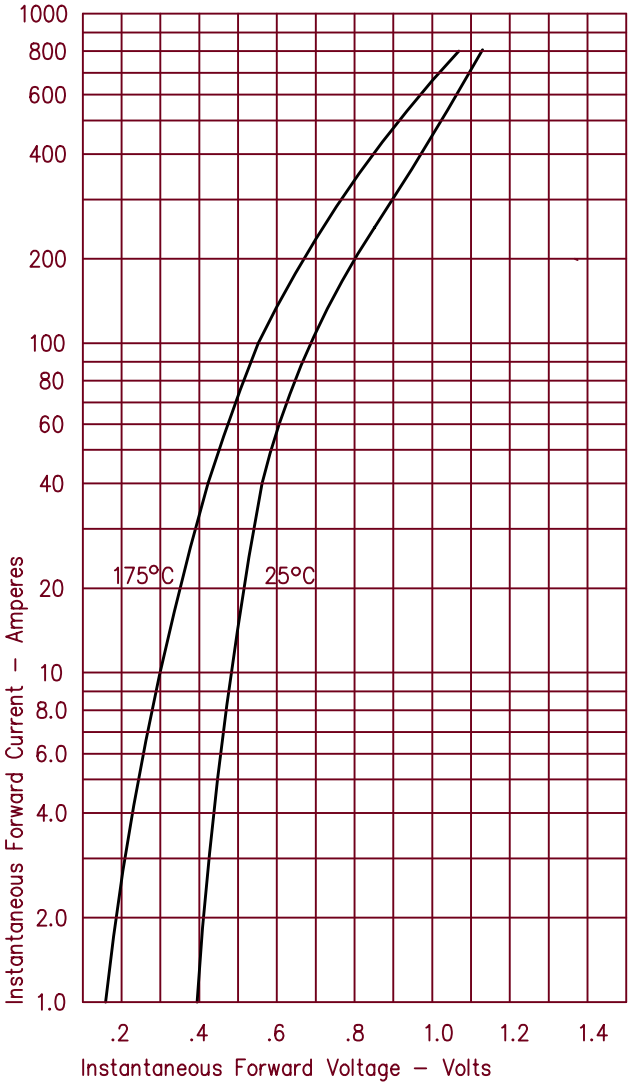


Figure 2
Typical Reverse Characteristics

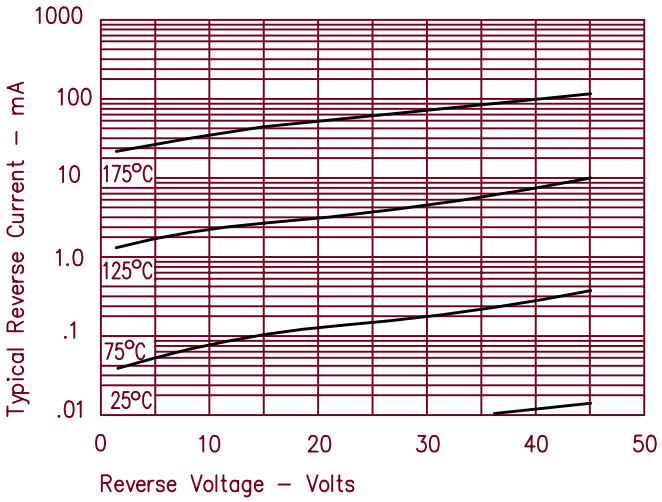


Figure 3
Typical Junction Capacitance

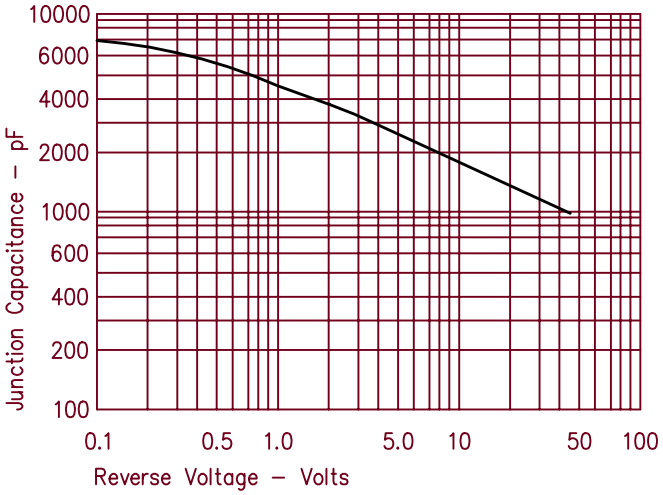


Figure 4
Forward Current Derating

