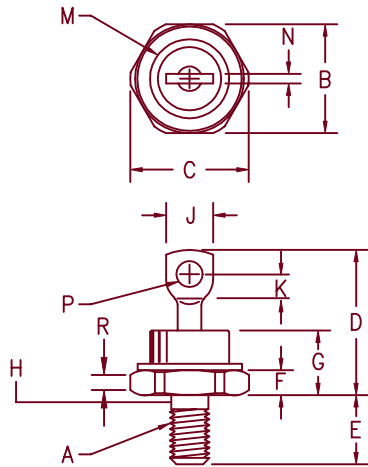


Military Schottky Rectifier 1N6392



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

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
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	---	

D0203AB (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	$T_C = 115^\circ C$, Square wave, $R_{\theta JC} = 1.0^\circ C/W$
Maximum surge current	I_{FSM} 1000 Amps	8.3 ms, half sine, $T_J = 175^\circ C$
Max reverse energy	$I_R(OV)$ 2 Amps	$L = 260\mu H$, $\leq 1\%$ Duty cycle
Max peak forward voltage	V_{FM} .51 Volts	$I_{FM} = 10A$; $T_J = 25^\circ C^*$
Max peak forward voltage	V_{FM} .68 Volts	$I_{FM} = 60A$; $T_J = 25^\circ C^*$
Max peak forward voltage	V_{FM} .82 Volts	$I_{FM} = 120A$; $T_J = 25^\circ C^*$
Max peak reverse current	I_{RM} 20 mA	V_{RRM} , $T_J = 25^\circ C$
Max peak reverse current	I_{RM} 60 mA	V_{RRM} , $T_J = 125^\circ C^*$
Max peak reverse current	I_{RM} 600 mA	V_{RRM} , $T_J = 175^\circ C^*$
Maximum junction capacitance	C_J 3000 pF	$V_R = 5.0V$, $T_J = 25^\circ C$

*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	$R_{\theta JC}$	$1.0^\circ C/W$ Junction to case
Mounting torque		30 inch pounds maximum
Weight		.54 ounces (15.3 grams) typical

1N6392

Figure 1
Typical Forward Characteristics

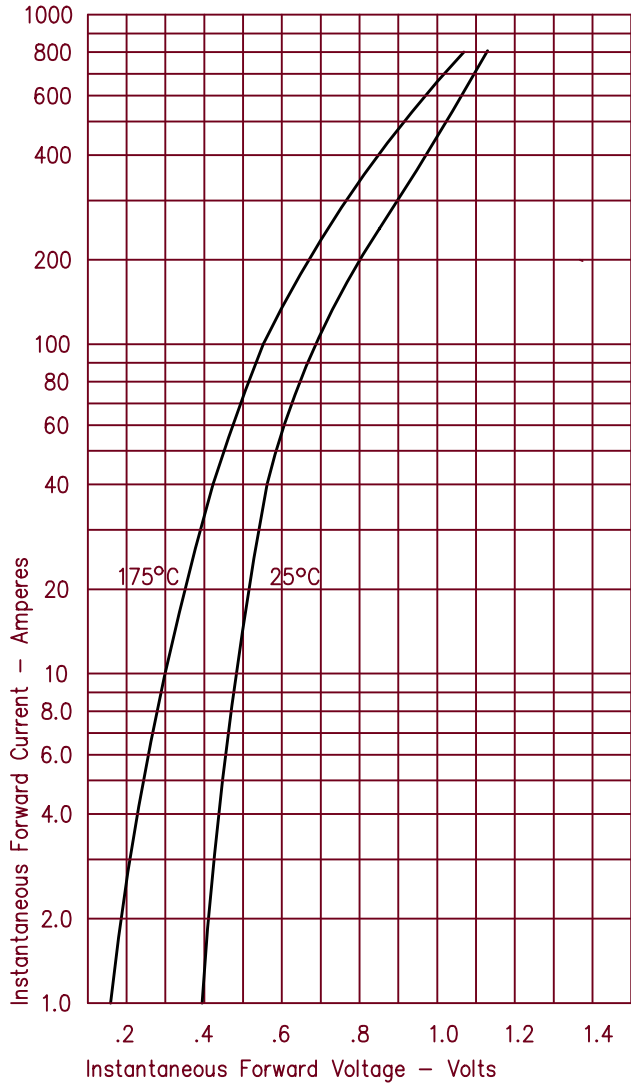


Figure 3
Typical Junction Capacitance

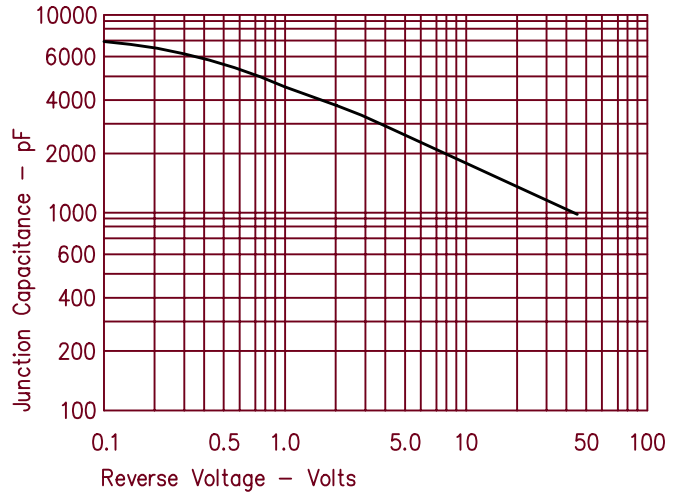


Figure 4
Forward Current Derating

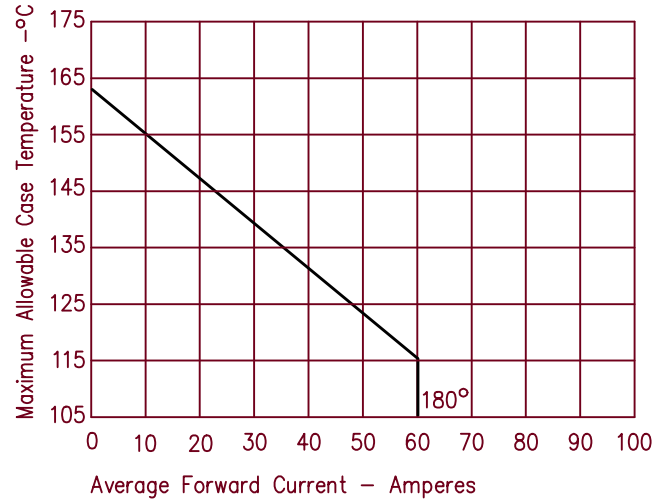


Figure 2
Typical Reverse Characteristics

