



**SCHOTTKY DIODES STUD TYPE 50 A**

**Features**

High Surge Capability  
Types up to 40V  $V_{RRM}$

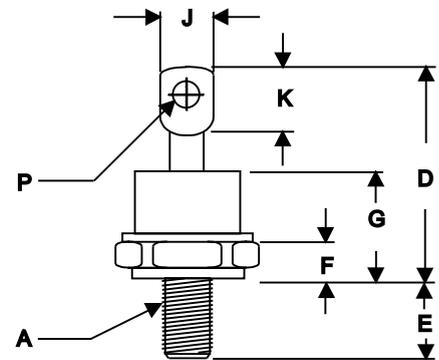
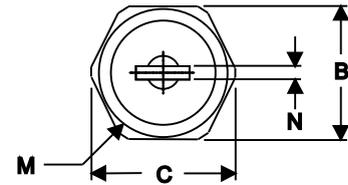
**50Amp Rectifier  
20-40 Volts**

**Maximum Ratings**

Operating Temperature: -65 °C to +150 °C  
Storage Temperature: -65 °C to +175 °C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N6097(R)	30V	21V	30V
1N6098(R)	40V	28V	40V

**DO-5**



- Notes:  
1. Standard Polarity: Stud is Cathode  
2. Reverse Polarity: Stud is Anode

**Electrical Characteristics @ 25 °C Unless Otherwise Specified**

Average Forward Current	$I_{F(AV)}$	50A	$T_c = 100\text{ °C}$
Peak Forward Surge Current	$I_{FSM}$	400A	8.3ms , half sine
Maximum Instantaneous Forward Voltage <small>NOTE (1)</small>	$V_F$	0.70V	$I_{FM} = 50A$ $T_j = 25\text{ °C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage <small>NOTE (1)</small>	$I_R$	5.0mA 250 mA	$T_j = 25\text{ °C}$ $T_j = 125\text{ °C}$
Maximum Thermal Resistance, Junction To Case	$R_{\theta jc}$	1.0°C/W	

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	1/4 -28 Threads		Standard	Polarity	
B	.669	.687	17.19	17.44	
C	----	.794	----	20.16	
D	----	1.020	----	25.91	
E	.422	.453	10.72	11.50	
F	.115	.200	2.93	5.08	
G	----	.460	----	11.68	
H	----	----	----	----	
J	----	.375	----	9.52	
K	.156	----	3.96	----	
M	----	.667	----	16.94	
N	----	.080	----	2.03	
P	.140	.175	3.56	4.45	

NOTE :  
(1) Pulse Test: Pulse Width 300 usec, Duty Cycle < 2%

Figure 1  
Typical Forward Characteristics

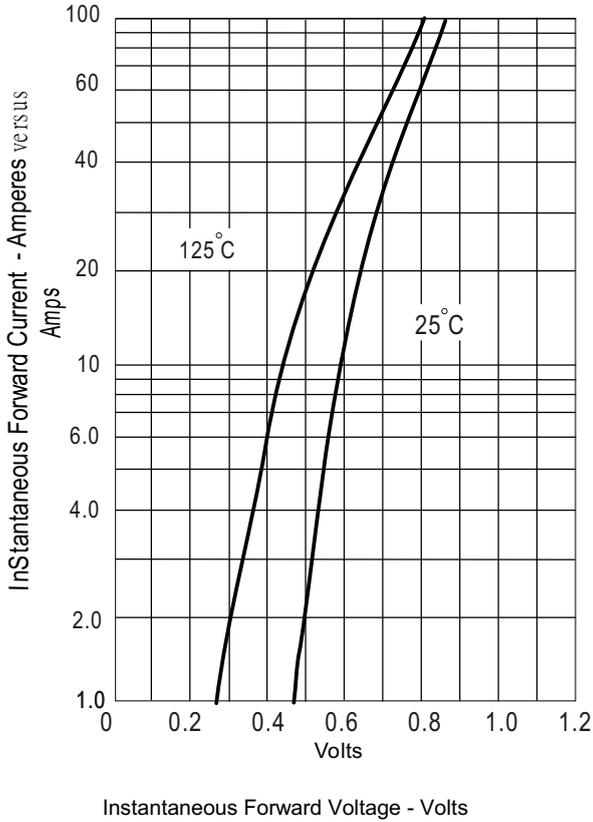


Figure 2  
Forward Derating Curve

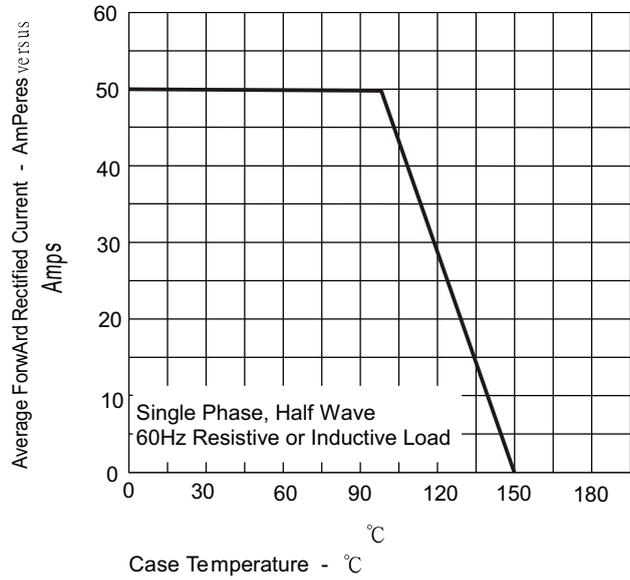


Figure 4  
Typical Reverse Characteristics

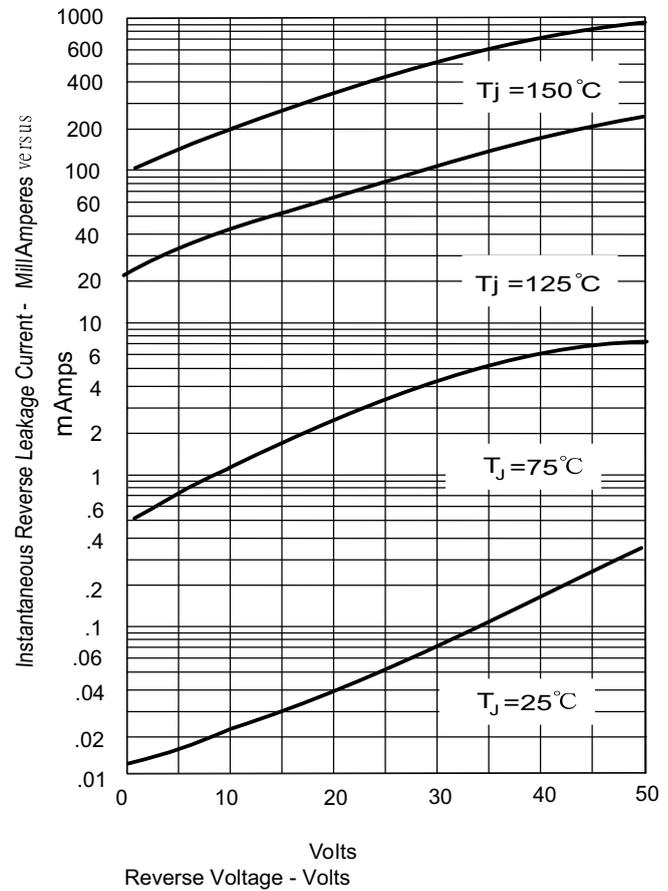


Figure 3  
Peak Forward Surge Current

