

20 STERN AVE.
 SPRINGFIELD, NEW JERSEY 07081
 U.S.A.

**MUR5005
 THRU
 MUR5060**

Features

- Supre Fast switching for high efficiency
- High Surge Capability
- Low Leakage
- Low Forward Voltage Drop
- High Current Capability

**50 Amp Supre Fast
 Recovery Rectifier
 50 to 600 Volts**

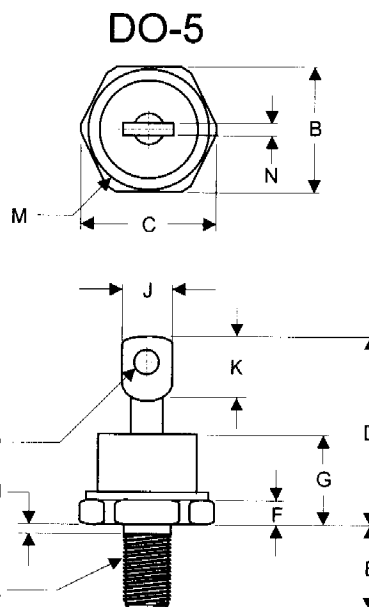
Maximum Ratings

- Operating Temperature: -55°C to +175°C
- Storage Temperature: -55°C to +175°C

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR5005	50V	35V	50V
MUR5010	100V	70V	100V
MUR5020	200V	140V	200V
MUR5040	400V	280V	400V
MUR5060	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	50 A	$T_C = 135^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	600A	8.3ms, half sine
Maximum Instantaneous Forward Voltage 5005-5020 5040 5060	V_F	1.15V 1.35V 1.70V	$I_{FM} = 50A;$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	50µA 6mA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Maximum Reverse Recovery Time 5005-5020 5040 5060	T_{rr}	60ns 75ns 90ns	$I_F=0.5A, I_R=1.0A,$ $I_{rr}=0.25A$
Typical Junction Capacitance 5005-5020 5040 5060	C_J	575pF 300pF 275pF	Measured at 1.0MHz, $V_R=10V$



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	.220	.249	5.58	6.32	
J	----	.375	----	9.52	
K	.156	----	3.96	----	
M	----	.667	----	16.94	∅
N	----	.080	----	2.03	
P	.140	.175	3.56	4.45	∅