

**MUR1505
THRU
MUR1560**

**15 Amp Super Fast
Glass Passivated
Rectifier
50 to 600 Volts**

Features

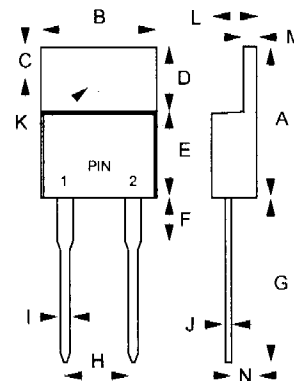
- Glass passivated chip
- Superfast switching time for high efficiency
- Low reverse leakage current
- High surge capacity

Maximum Ratings

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

Microsemi Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR1505	MUR1505	50V	35V	50V
MUR1510	MUR1510	100V	70V	100V
MUR1520	MUR1520	200V	140V	200V
MUR1540	MUR1540	400V	280V	400V
MUR1560	MUR1560	600V	420V	600V

TO-220AC



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	15.0A	$T_C = 120^\circ C$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element 1505-1520 1540-1560	V_F	1.25V 2.0 V	$I_{FM} = 15A$ $T_J = 25^\circ C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10uA 1000uA	$T_J = 25^\circ C$ $T_J = 100^\circ C$
Maximum Reverse Recovery Time 1505-1520 1540-1560	T_{rr}	35ns 60ns	$I_F=0.5A, I_r=1.0A,$ $I_{rr}=0.25A$
Typical Junction Capacitance	C_J	160pF	Measured at 1.0MHz, $V_R=4.0V$

DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.100	.135	2.54	3.43	
D	.230	.270	5.84	6.86	
E	.380	.420	9.65	10.67	
F250	6.35	
G	.500	.580	12.70	14.73	
H	.190	.210	4.83	5.33	
I	.020	.045	0.51	1.14	
J	.012	.025	0.30	0.64	
K	.139	.161	3.53	4.09	
L	.140	.190	3.56	4.83	
M	.045	.055	1.14	1.40	
N	.080	.115	2.03	2.92	

*Pulse Test: Pulse Width 300µsec, Duty Cycle 2%