KERSEMI

MUR1630CT THRU MUR1660CT

16 Amp Super Fast Glass Passivated Rectifier 300 to 600 Volts

Features

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

Maximum Ratings

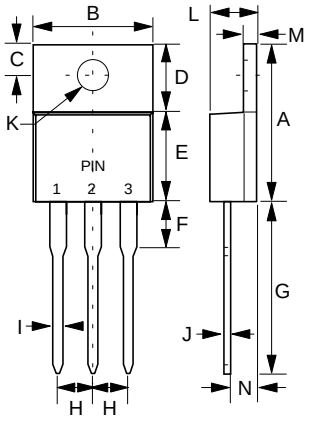
- Operating Junction Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

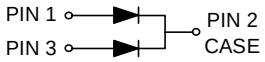
Microsemi Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR1630CT	MUR1630CT	300V	210V	300V
MUR1640CT	MUR1640CT	400V	280V	400V
MUR1660CT	MUR1660CT	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	16 A	T_C = 100°C
Peak Forward Surge Current	I_{FSM}	125 A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element 1630-1640CT 1660CT	V_F	1.30V 1.50V	I_{FM} = 8 A T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0uA 500uA	T_J = 25°C T_J = 100°C
Maximum Reverse Recovery Time	Trr	50ns	I_F=0.5A, I_R=1.0A, I_{rr}=0.25A
Typical Junction Capacitance	C_J	80pF	Measured at 1.0MHz, V_R=4.0V

TO-220AB

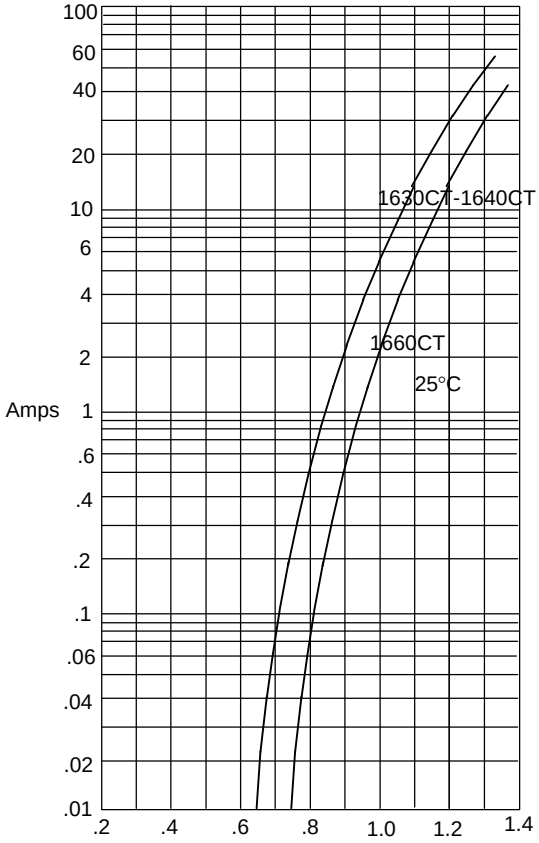




DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.100	.135	2.54	3.43	
D	.230	.270	5.84	6.86	
E	.380	.420	9.65	10.67	
F	---	.250	---	6.35	
G	.500	.580	12.70	14.73	
H	.090	.110	2.29	2.79	
I	.020	.045	0.51	1.14	
J	.012	.025	0.30	0.64	
K	.139	.161	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	

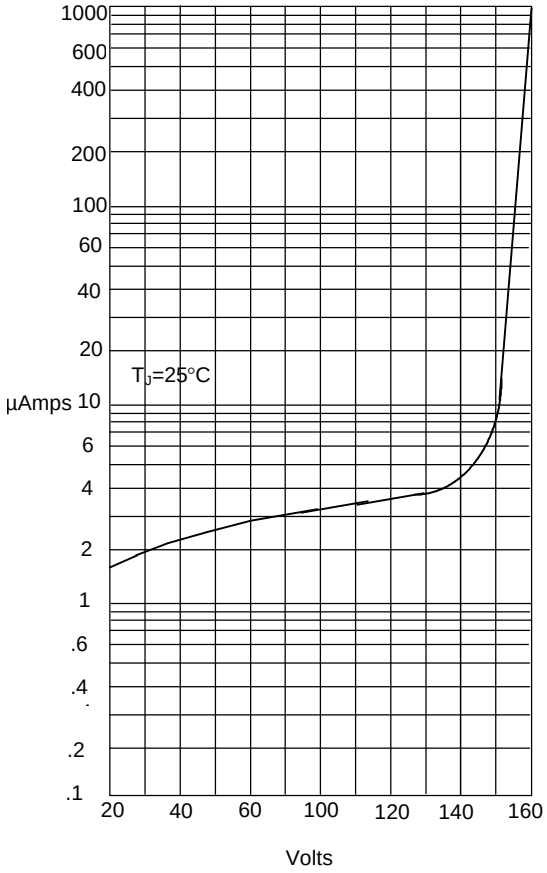
MUR1630CT thru MUR1660CT

Figure 1
Typical Forward Characteristics



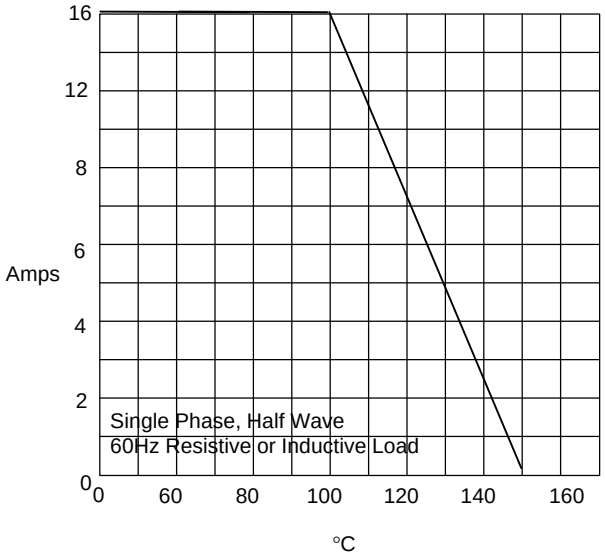
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



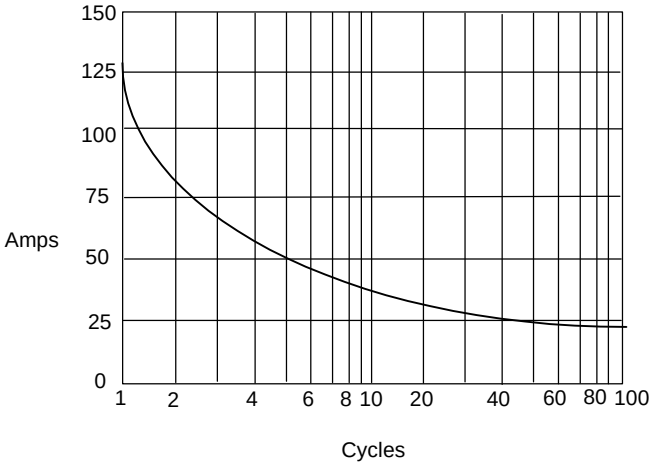
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes *versus*
Case Temperature -°C

Figure 4
Maximum Non-Repetitive Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles