

MUR1630CT-MUR1660CT

ULTRA FAST RECTIFIER

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

Rating	Symbol	MUR1630CT	MUR1640CT	MUR1660CT	Unit
Peak repetitive reverse voltage	V_{RRM}	300	400	600	
Maximum RMS voltage	V_{RMS}	210	280	420	V
DC blocking voltage	V_R	300	400	600	
Average rectified forward current (Rated V _R)	I _{F(AV)}	16.0 @ T _C = 100°C		А	
Peak forward surge current (8.3ms, half sine)	I _{FSM}	125			Α
Operating and storage junction temperature range	T_{J} , T_{stg}	-55 to +150		°C	

ELECTRICAL CHARACTERSITICS (T_A = 25°C unless otherwise specified)

Parameter	Symbol	MUR1630CT	MUR1640CT	MUR1660CT	Unit
Maximum forward voltage drop $^{(1)}$ (I _F = 8.0A, T _J = 25°C)	VF	1.30		1.50	V
Maximum DC reverse current (1) (Rated dc voltage, T _J = 25°C) (Rated dc voltage, T _J = 100°C)	I _R	5.0 500		μΑ	
Maximum reverse recovery time (I _F = 0.5A, I _R = 1.0A, I _{REC} = 0.25A)	t _{rr}	50		ns	
Typical junction capacitance @ 1.0MHz, V _R = 4.0V	Cı	80		pF	

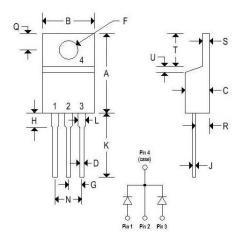


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MECHANICAL CHARACTERISTICS

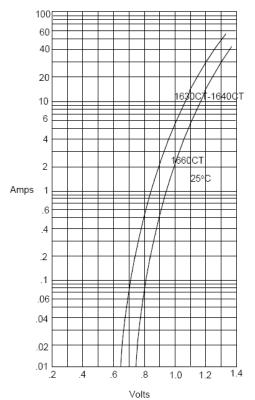
Case	TO-220AB		
Marking	Alpha-numeric		
Pin out	See below		



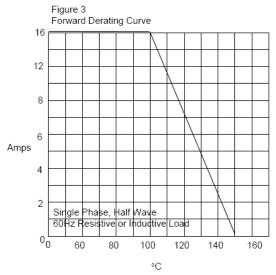
	TO-220AB						
	Inc	hes	Millimeters				
	Min	Max	Min	Max			
Α	0.570	0.620	14.480	15.750			
В	0.380	0.405	9.660	10.280			
С	0.160	0.190	4.070	4.820			
D	0.025	0.035	0.640	0.880			
F	0.142	0.147	3.610	3.730			
G	0.095	0.105	2.420	2.660			
H	0.110	0.155	2.800	3.930			
J	0.018	0.025	0.460	0.640			
K	0.500	0.562	12.700	14.270			
L	0.045	0.060	1.150	1.520			
N	0,190	0.210	4.830	5.330			
Q	0.100	0.120	2.540	3.040			
R	0.080	0.110	2.040	2.790			
S	0.045	0.055	1.150	1.390			
T	0.235	0.255	5.970	6.470			
U	-	0.050	-	1270			



Figure 1 Typical Forward Characteristics



Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

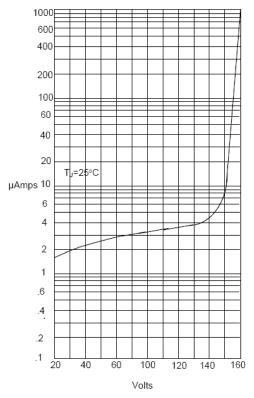


Average Forward Rectified Current - Amperes*versus* Case Temperature -°C

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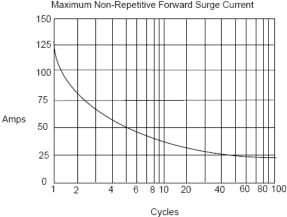
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Figure 2 Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperesersus Percent Of Rated Peak Reverse Voltage - Volts

Figure 4
Maximum Non-Repetitive Forward Surge Current



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



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