

High-reliability discrete products and engineering services since 1977

MUR805CT-MUR860CT

8A ULTRA FAST RECTIFIERS

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	MURH					Unit
		805CT	810CT	820CT	840CT	860CT	Oill
Peak repetitive reverse voltage	V _{RRM}	50	100	200	400	600	
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	V
DC blocking voltage	V_R	50	100	200	400	600	
Average forward current (Rated V _R)	I _{F(AV)}	8 @ T _C = 120°C					Α
Peak forward surge current (8.3ms, half sine)	I _{FSM}	65					Α
Operating and storage junction temperature range	$T_{J_s}T_{stg}$	-55 to +150				°C	

ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted)

Parameter	Suma had	MURH					Unit
Parameter	Symbol	805CT	810CT	820CT	840CT	860CT	Ollic
Maximum instantaneous forward voltage ⁽¹⁾	V						V
(I _F = 4A, T _J = 25°C)	V _F	2.2			2.8	V	
Maximum DC reverse current (1)							
(Rated dc voltage, T _J = 25°C)	I _R			10			μΑ
(Rated dc voltage, T _J = 100°C)		800					
Maximum reverse recovery time							
$(I_F = 1A, di/dt = 50A/\mu s)$	t _{rr}		35		5	0	ns



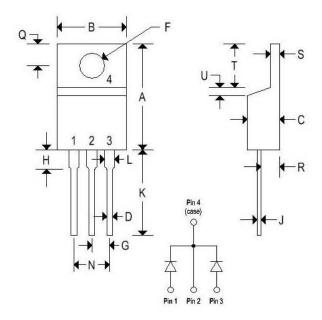
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MECHANICAL CHARACTERISTICS

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



	TO-220 A B						
	Inches		Millimeters				
	Min	Max	Min	Max			
Α	0.570	0.620	14.480	15,750			
В	0.380	0.405	9.660	10.280			
C	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			
Н	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	-	1.270			

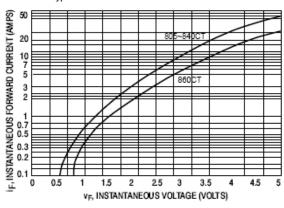


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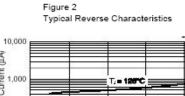
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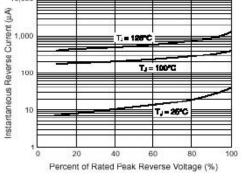
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Figure 1 Typical Forward Characteristics

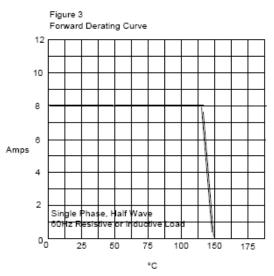


Instantaneous Forward Current - Amperesversus

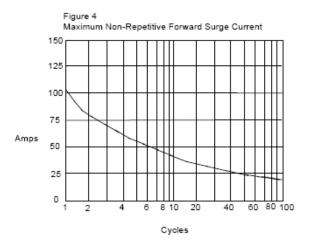




Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperesversus Ambient Temperature -°C



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