

MUR805CT-MUR860CT

High-reliability discrete products and engineering services since 1977

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	MURH805CT	MURH810CT	MURH820CT	MURH840CT	MURH860CT	Unit
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 @ Tc = 120°C			А
Peak forward surge current (8.3ms, half sine)	IFSM	65					А
Operating and storage junction temperature range	T _{J,} T _{stg}	-55 to +150				°C	

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

Parameter	Symbol	MURH805CT	MURH810CT	MURH820CT	MURH840CT	MURH860CT	Unit
Maximum instantaneous forward voltage ⁽¹⁾ ($I_F = 4A, T_J = 25^{\circ}C$)	V _F		2	2		2.8	v
Maximum DC reverse current ⁽¹⁾ (Rated dc voltage, T _J = 25°C) (Rated dc voltage, T _J = 100°C)	I _R			10 800			μΑ
Maximum reverse recovery time (I _F = 1A, di/dt = 50A/µs)	trr		35		5	50	ns



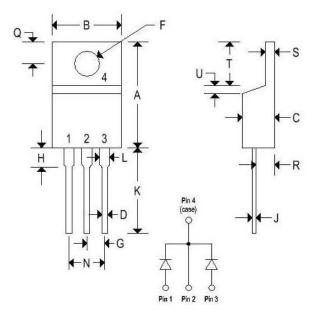
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MECHANICAL CHARACTERISTICS

Case	ТО-220АВ
Marking	Alpha-numeric
Pin out:	See below



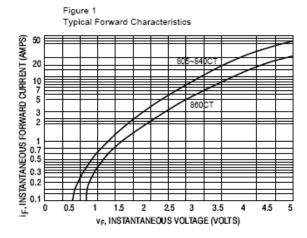
	TO-220AB						
	Inc	hes	Millimeters				
	Min	Max	Min	Max			
А	0.570	0.620	14.480	15.750			
В	0.380	0.405	9.660	10.280			
С	0,160	0.190	4.070	4.820			
D	0.025	0.035	0.640	0.880			
F	0.142	0.147	3.610	3.730			
G	0.095	0.105	2.420	2.660			
Н	0.110	0.155	2.800	3.930			
J	0.018	0.025	0.460	0.640			
K	0.500	0.562	12.700	14.270			
L	0.045	0.060	1.150	1.520			
Ν	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			
Τ	0.235	0.255	5.970	6.470			
U		0.050	-	1.270			



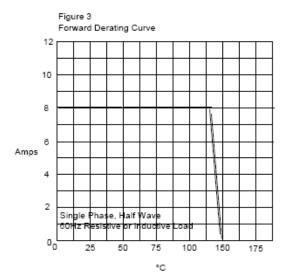
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Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperesversus Ambient Temperature $\ \ ^\circ C$

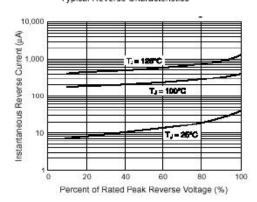
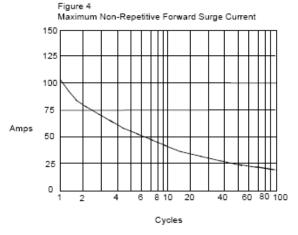


Figure 2 Typical Reverse Characteristics



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