

MUR805-MUR860

High-reliability discrete products and engineering services since 1977

8 AMP 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	MUR805	MUR810	MUR815	MUR820	MUR840	MUR860	Unit	
Peak repetitive reverse voltage	V _{RRM}								
Working peak reverse voltage	V _{RWM}	50	100	150	200	400	600	V	
DC blocking voltage	VR								
Average rectified forward current (Rated $V_{R})^{\ (1)}$	I _{F(AV)}	8.0 @ T _c = 150°C					А		
Peak repetitive forward current (Rated V _R) Square wave, 20 kHz	I _{FM}			16 @ T _o	e = 150°C			A	
Non-repetitive peak surge current (surge applied at rated load conditions, halfwave, single phase, 60Hz)	I _{FSM}			1	00			A	
Operating and storage junction temperature range	TJ, Tstg	-65 to +175					°C		
Maximum thermal resistance Junction to case	Rejc		3.0			2.0		°C/W	
Junction to ambient	$R_{\Theta JA}$	73							

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

Parameter	Symbol	MUR805	MUR810	MUR815	MUR820	MUR840	MUR860	Unit
Maximum instantaneous forward voltage (1)								
(I _F = 8.0A, T _C = 150°C)	VF	0.8	95	1.0	00	1	.20	V
(I _F = 8.0A, T _C = 25°C)		0.9	75	1.3	30	1	.50	
Maximum instantaneous reverse current (1)								
(Rated dc voltage, $T_c = 150^{\circ}C$)	IR	250				500		μΑ
(Rated dc voltage, $T_c = 25^{\circ}C$)			5.	.0		:	10	
Maximum reverse recovery time								
(I _F = 1.0A, di/dt = 50A/µs)	trr	35			(60	ns	
(I _F = 0.5A, I _R = 1.0A, I _{REC} = 0.25A)			2	5		!	50	

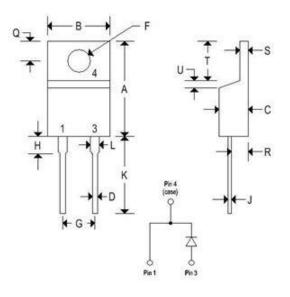


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MECHANICAL CHARACTERISTICS

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



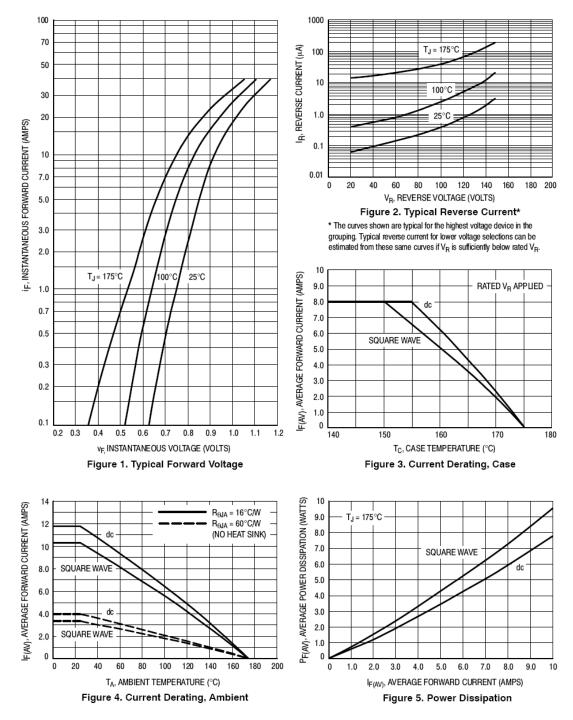
		TO-220AC							
	Inc	hes	Millimeters						
	Min	Max	Min	Max					
Α	0.595	0.620	15.110	15.750					
В	0.380	0.405	9.650	10.290					
С	0.160	0.190	4.060	4.820					
D	0.142	0.147	3.610	3.730					
F	0.142	0.147	3.610	3.730					
G	0.190	0.210	4.830	5.330					
H	0.110	0.130	2.790	3.300					
J	0.018	0.025	0.460	0.640					
К	0.500	0.562	12.700	14.270					
L	0.045	0.050	1.140	1.270					
Q	0.100	0.120	2.540	3.040					
R	0.080	0.110	2.040	2.790					
S	0.045	0.055	1.140	1.390					
T	0.235	0.255	5.970	6.480					
U	0.030	0.050	0.760	1.270					



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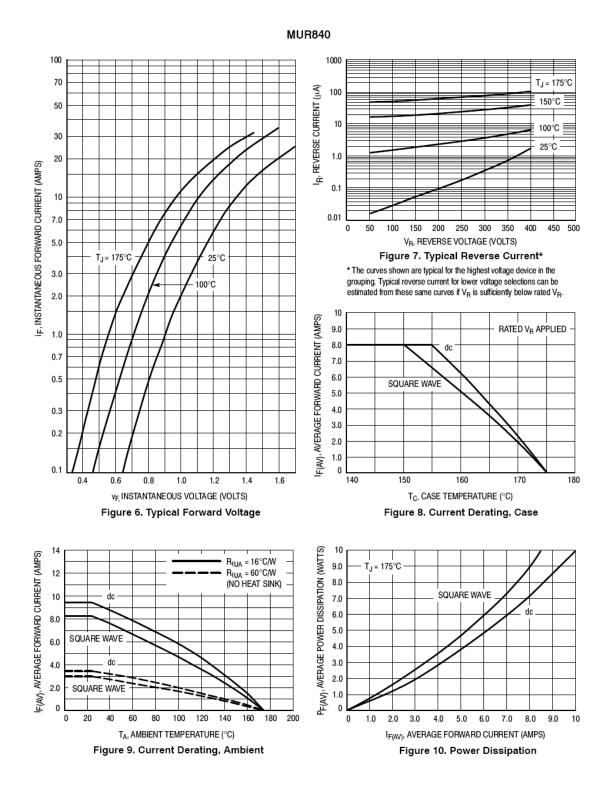
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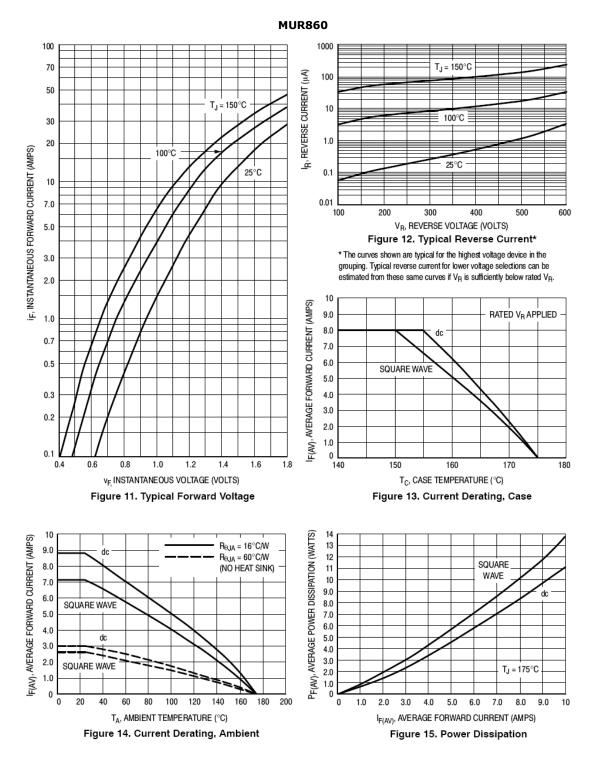
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