



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
	104111005

Rating	Symbol	MUR870	MUR880	MUR890	MUR8100	Unit
Peak repetitive reverse voltage Working peak reverse voltage DC blocking voltage	V _{RRM} V _{RWM} V _R	700	800	900	1000	V
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	IFM	16 @ T _c = 150°C		Α		
Non-repetitive peak surge current (surge applied at rated load conditions, halfwave, single phase, 60Hz)	I _{FSM}	I _{FSM} 100			А	
Operating and storage junction temperature range	TJ, Tstg		-65 t	o +175		°C
Maximum thermal resistance Junction to case	Rejc		2	2.0		°C/W

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

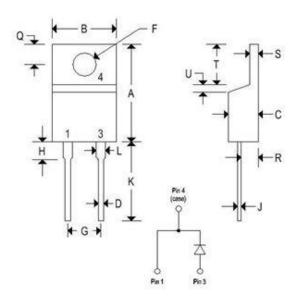
Parameter	Symbol	MUR870	MUR880	MUR890	MUR8100	Unit
Maximum instantaneous forward voltage (1)						
(I _F = 8.0A, T _C = 150°C)	VF		:	1.5		V
(I _F = 8.0A, T _C = 25°C)			:	1.8		
Maximum instantaneous reverse current (1)						
(Rated dc voltage, $T_c = 100^{\circ}C$)	I _R		5	500		μΑ
(Rated dc voltage, $T_c = 25^{\circ}C$)				25		
Maximum reverse recovery time						
(I _F = 1.0A, di/dt = 50A/µs)	trr		1	00		ns
(I _F = 0.5A, I _R = 1.0A, I _{REC} = 0.25A)				75		
Controlled avalanche energy	WAVAL			20		mJ





MECHANICAL CHARACTERISTICS

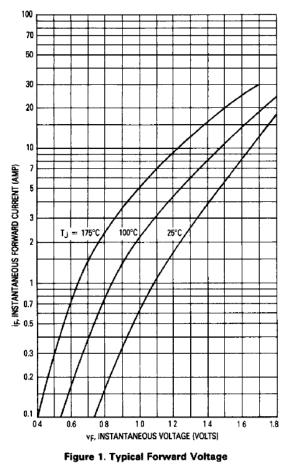
Case	TO-220AC		
Marking	Alpha-numeric		
Pin out	See below		

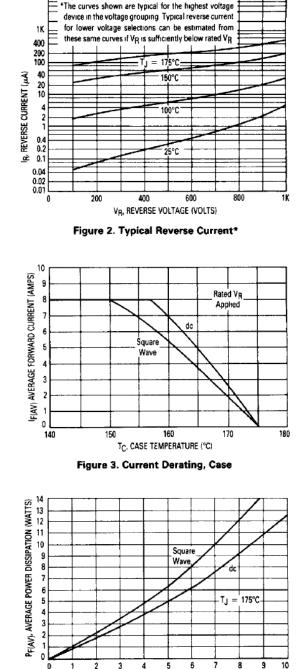


		TO-220AC					
	Inc	hes	Millimeters				
	Min	Max	Min	Max			
Α	0.595	0.620	15.110	15.750			
В	0.380	0.405	9.650	10.290			
C	0.160	0.190	4.060	4.820			
D	0.142	0.147	3.610	3.730			
F	0.142	0.147	3.610	3.730			
G	0.190	0.210	4.830	5.330			
Η	0.110	0.130	2.790	3.300			
J	0.018	0.025	0.460	0.640			
К	0.500	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			









IF(AV), AVERAGE FORWARD CURRENT (AMPS)

Figure 5. Power Dissipation

T_A, AMBIENT TEMPERATURE (°C) Figure 4. Current Derating, Ambient

100

120 140

dc

Square

Wave

do

Square Wave

20 40 60 80

 $R_{\theta JA} = 60^{\circ}CW$

(No Heat Sink)

160 180 200

Røja

10

IFIAVI, AVERAGE FORWARD CURRENT (AMPS)

5

3

2

0

0



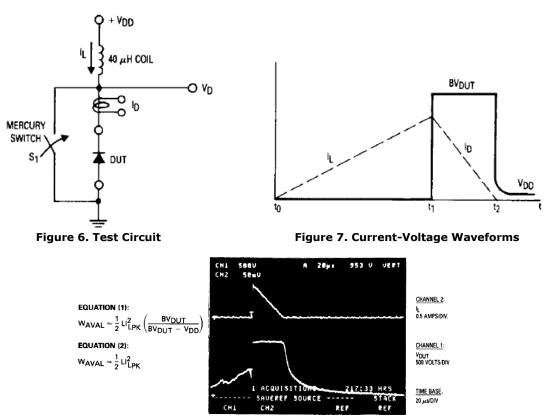
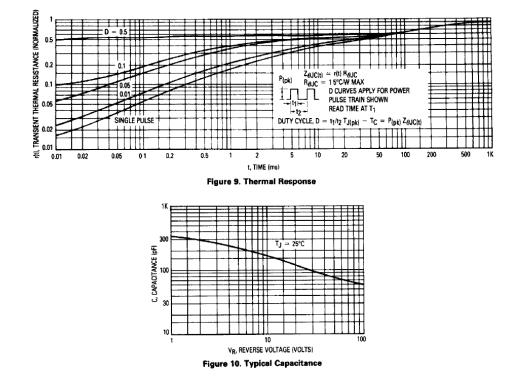


Figure 8. Current-Voltage Waveforms







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