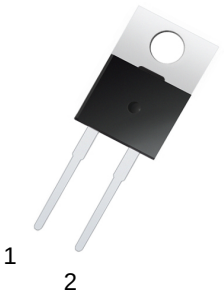
YZPST

YZPST Group

MUR805G Thru MUR860G

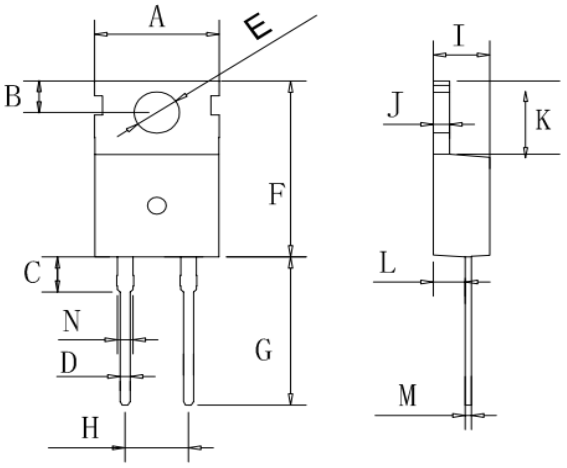
SUPERFAST RECOVERY RECTIFIER

VOLTAGE - 50 TO 600 VOLTS CURRENT 8AMPERES



1 - Cathode
2 - Anode
Back of Case - Cathode

TO-220AC



Dimensions in inches and (millimeters)

FEATURES

- Low forward voltage drop
- High Current Capability
- High reliability
- High surge Current Capability
- Good for switching mode application
- High temperature soldering：260°C/10seconds at terminals
- Pb free product are available：99% Sn above can meet RoHS environment substance directive request

MECHANICAL DATA

Case：TO220AC Molded plastic
Epoxy ：UL 94V-0 rate flame retardant
Lead：Lead solderable per
MIL-STD-202, Method 208 guranteed
Polarity：As Marked
Mounting Position：Any
Weight：2.24gram

MAXIMUM RATIXGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified
Single phase, half wave, 60Hz, resistive or inductive load
For capacitive load, derate current by 20%

PARAMETER	MUR 805G	MUR 810G	MUR 815G	MUR 820G	MUR 830G	MUR 840G	MUR 860G	UNITS
Maximum Repetitive Peak Reverse Voltage	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage	35	70	105	140	210	320	420	Volts
Maximum DC Blocking Voltage	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current .375″ (9.5mm) Lead Length at T_C=100°C	8							Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	125							Amps
Maximum Instandeous Forward Voltage at 8.0A	0.95				1.25		1.65	Volts
Maximum DC Reverse Current T_A=25°C at Rated DC Blocking Voltage T_A=100°C	10 250							μA
Typical Junction Capacitance (Note 1)	62							pF
Maximum Reverse Recovery Time (Note 2)	35				35			nS
Typical Thermal Resistance Note $R_{\theta JC}$	3.0							°C / W
Operating and Storage Temperature Range T_J	-55 to +150							°C

NOTES：
1. Measured at 1MHz and applied reverse Voltage of 4.0V D.C
2. Reverse Recovery Time test condition I_F=0.5A , I_R=1.0A , I_{RR}=0.25A
3. Thermal Resistance Junction to CASE

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RATINGS AND CHARACTERISTIC CURVES MUR805G THRU MUR860G

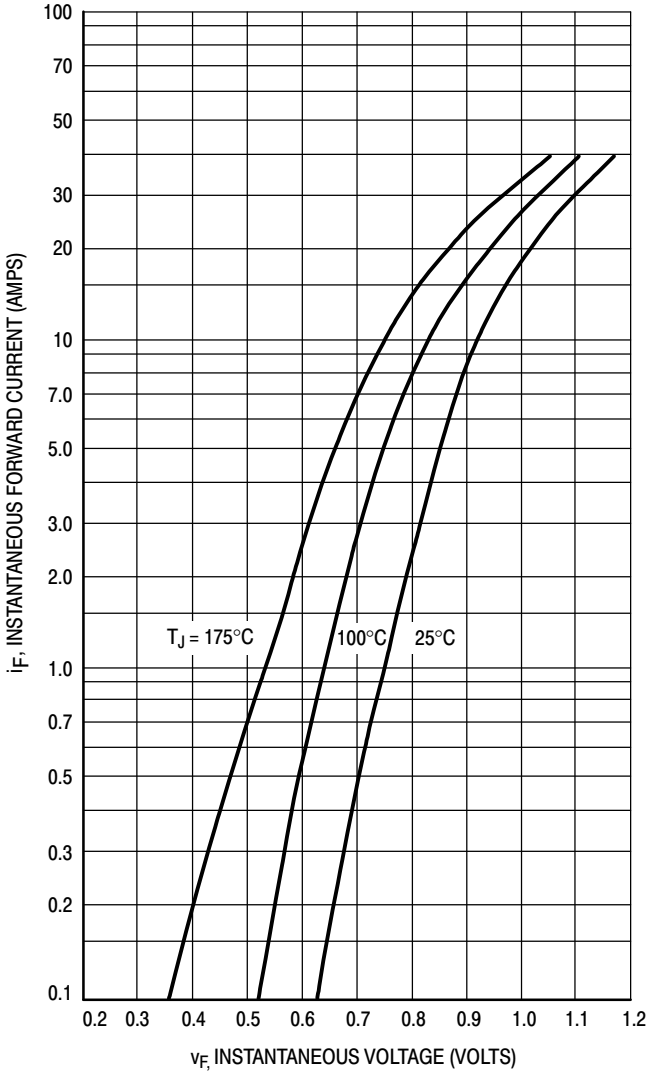

Figure 1. Typical Forward Voltage

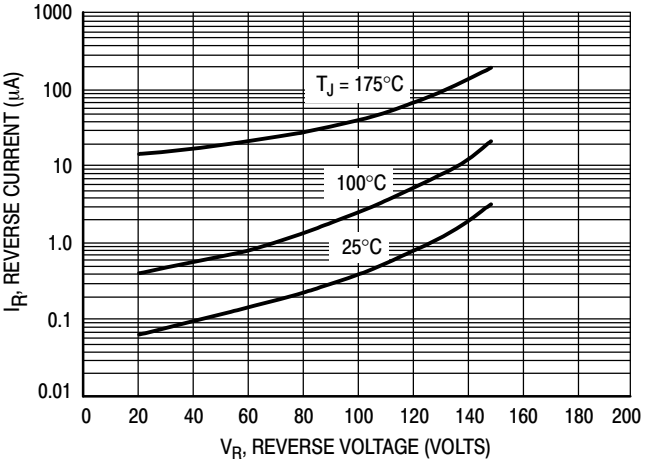

Figure 2. Typical Reverse Current*

* The curves shown are typical for the highest voltage device in the grouping. Typical reverse current for lower voltage selections can be estimated from these same curves if V_R is sufficiently below rated V_R.

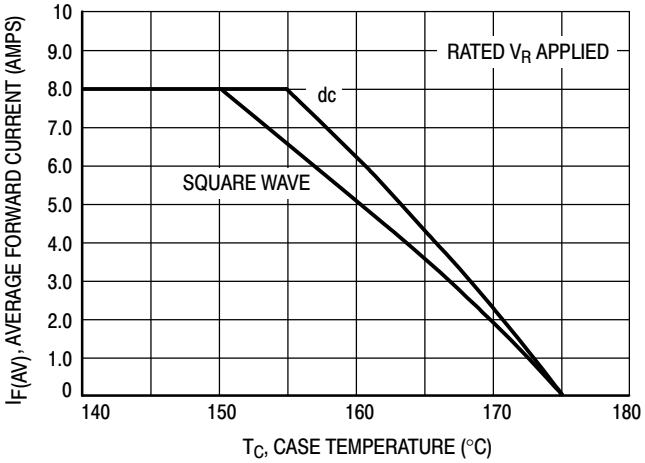

Figure 3. Current Derating, Case

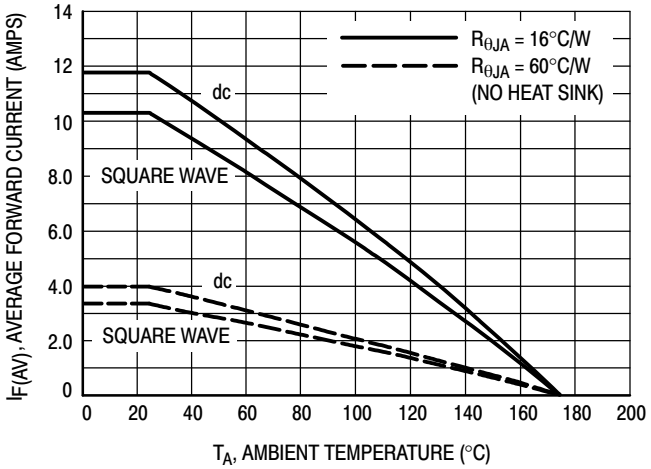

Figure 4. Current Derating, Ambient

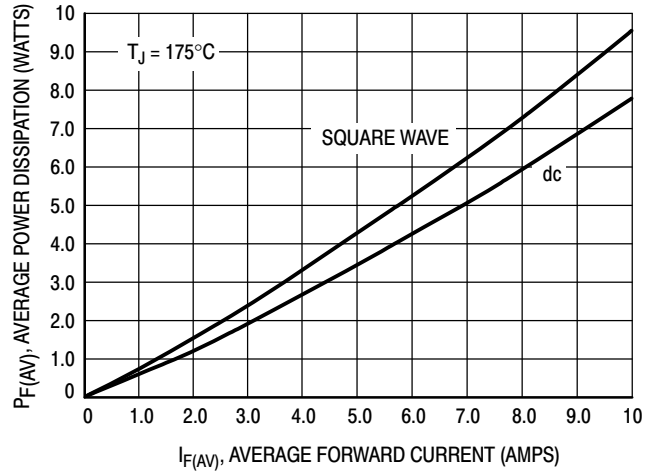

Figure 5. Power Dissipation

RATINGS AND CHARACTERISTIC CURVES MUR805G THRU MUR860G

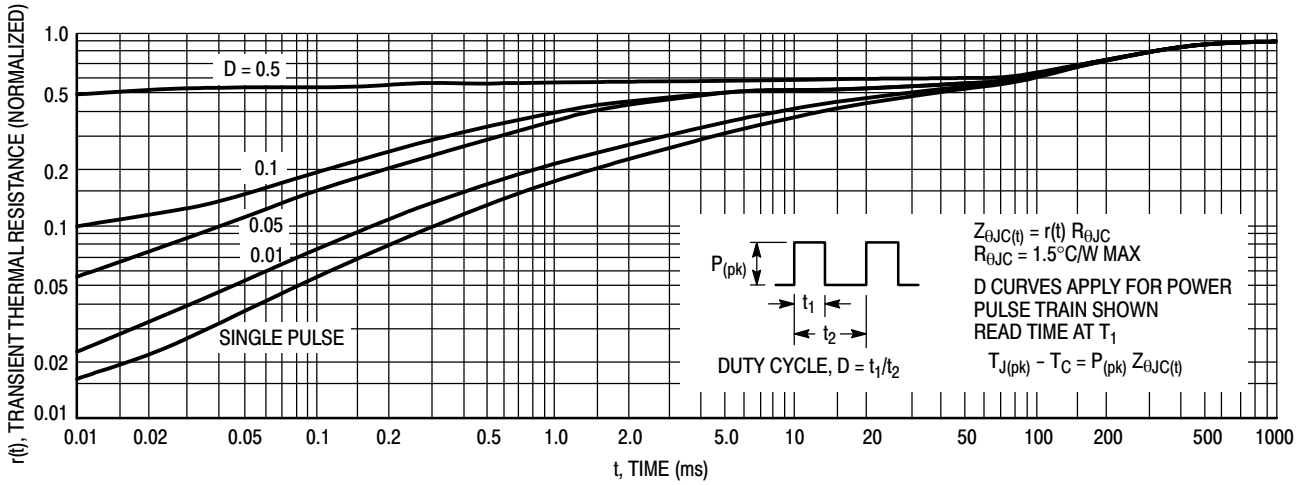

Figure 16. Thermal Response

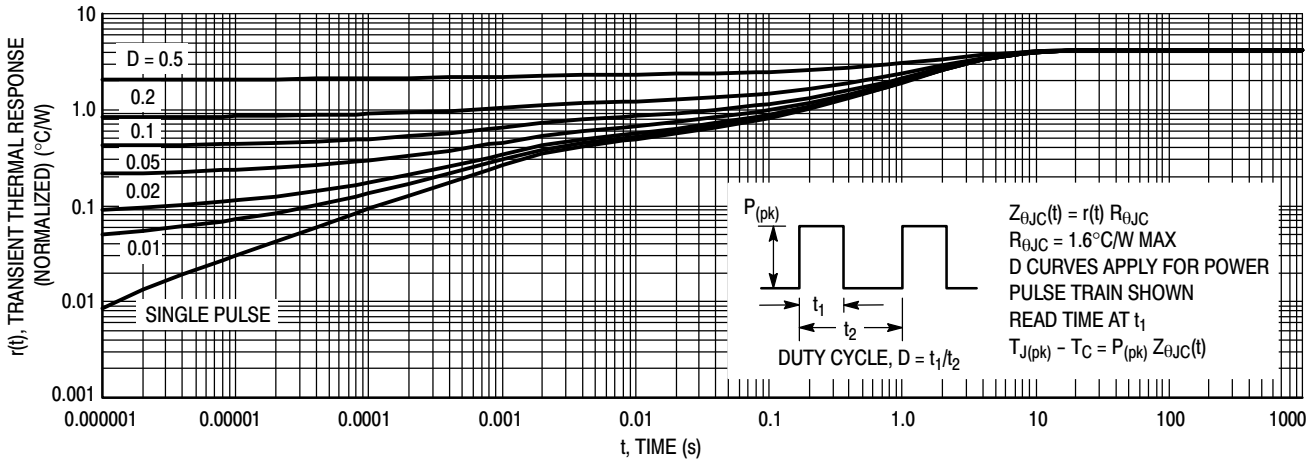

Figure 17. Thermal Response, (MUR860G) Junction-to-Case ($R_{\theta JC}$)

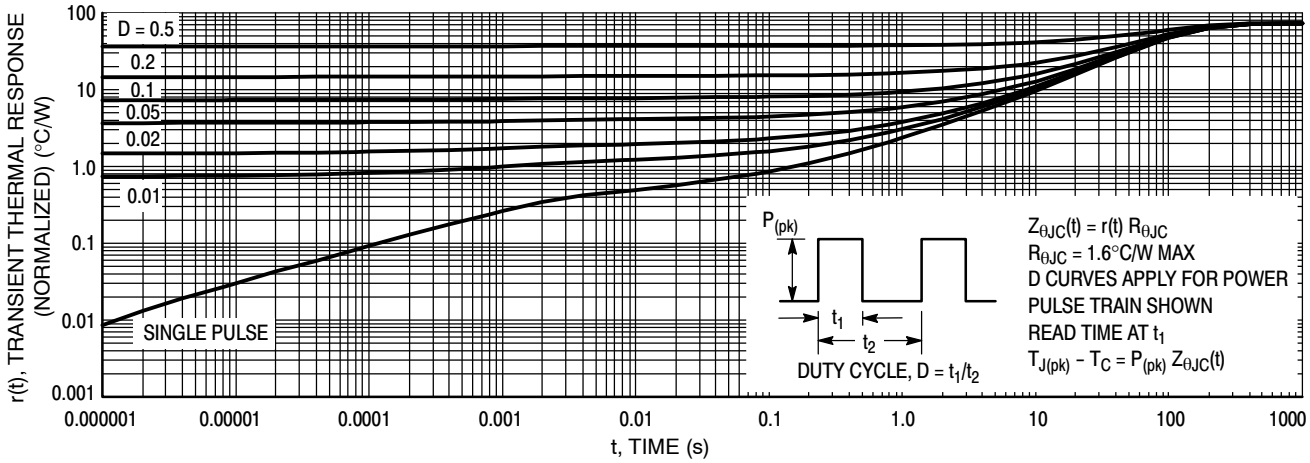

Figure 18. Thermal Response, (MUR860G) Junction-to-Ambient ($R_{\theta JA}$)