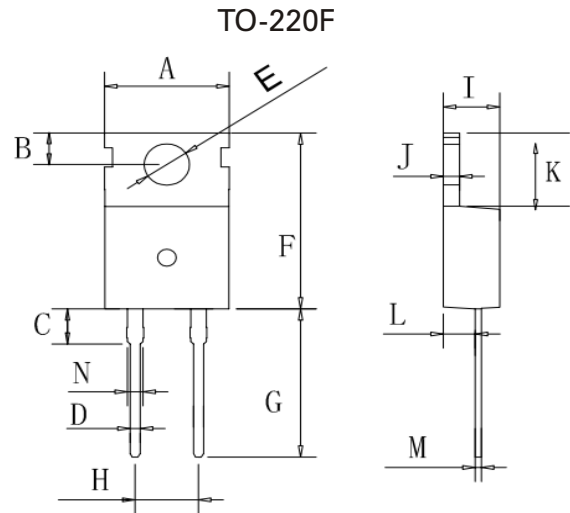
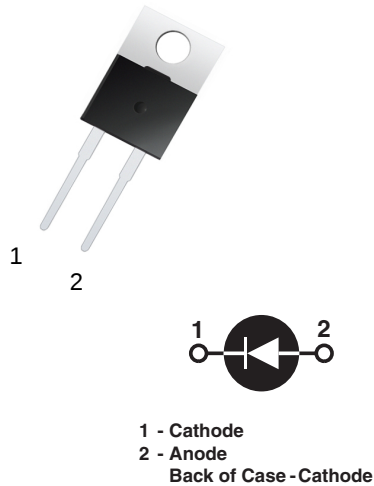


SUPERFAST RECOVERY RECTIFIER

VOLTAGE - 50 TO 600 VOLTS CURRENT 8 AMPERES



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 guaranteed
Polarity : As Marked
Mounting Position : Any
Weight : 2.24gram

MAXIMUM RATINGS 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	MURF805 G	MURF810 G	MURF 815G	MURF 820G	MURF 830G	MURF 840G	MURF 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							μ A
Typical Junction Capacitance (Note 1)	62							pF
Maximum Reverse Recovery Time (Note 2)	35				35			nS
Typical Thermal Resistance Note R _{θJC}	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

SUPERFAST RECOVERY RECTIFIER

RATINGS AND CHARACTERISTIC CURVES MURF805G THRU MURF860G

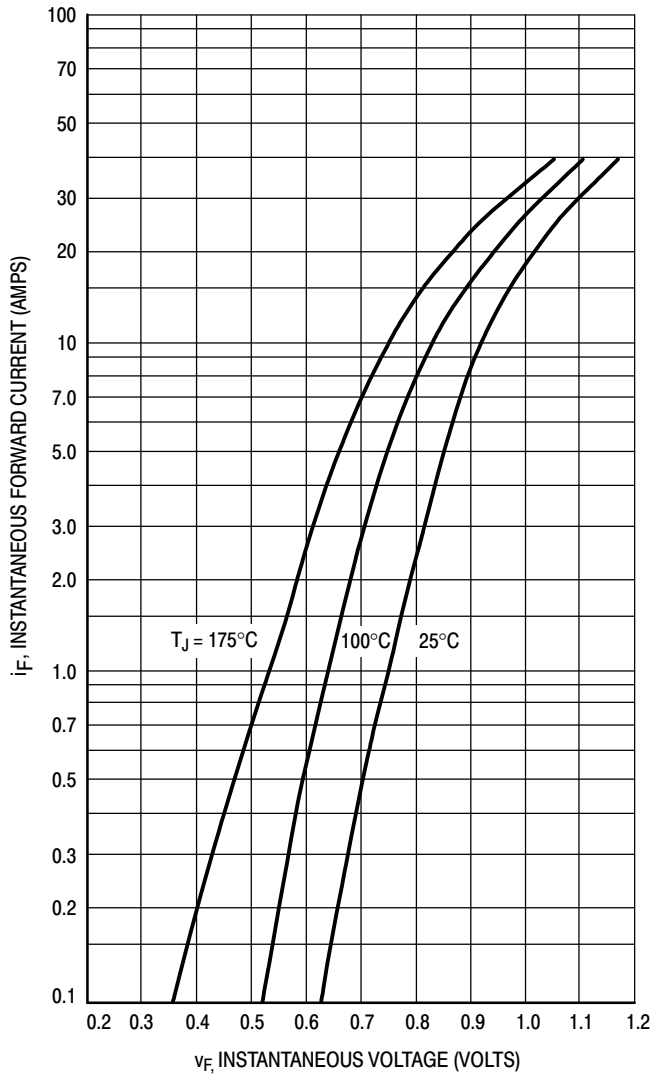


Figure 1. Typical Forward Voltage

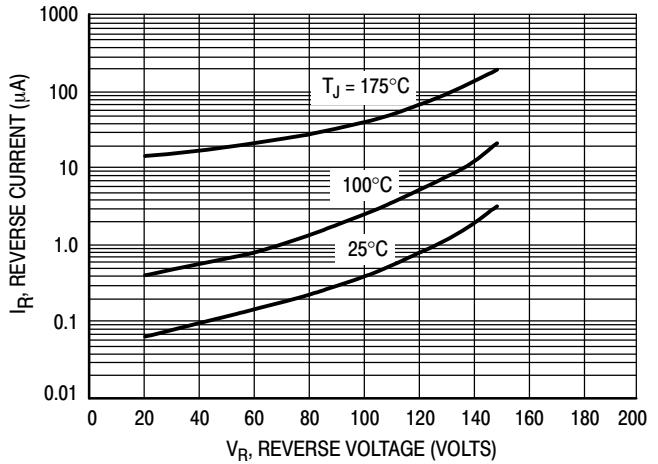


Figure 2. Typical Reverse Current*

* 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 .

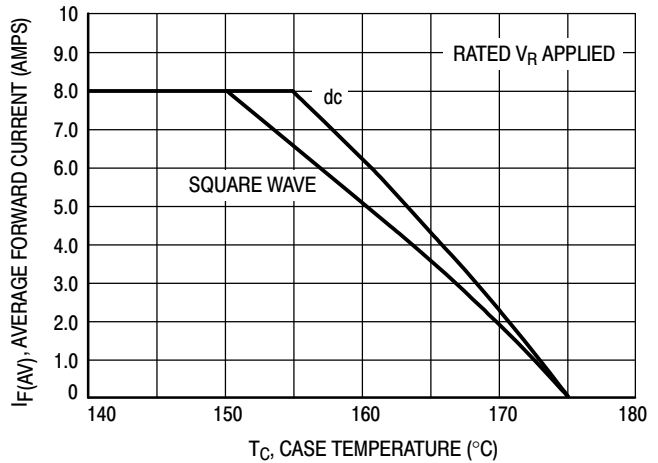


Figure 3. Current Derating, Case

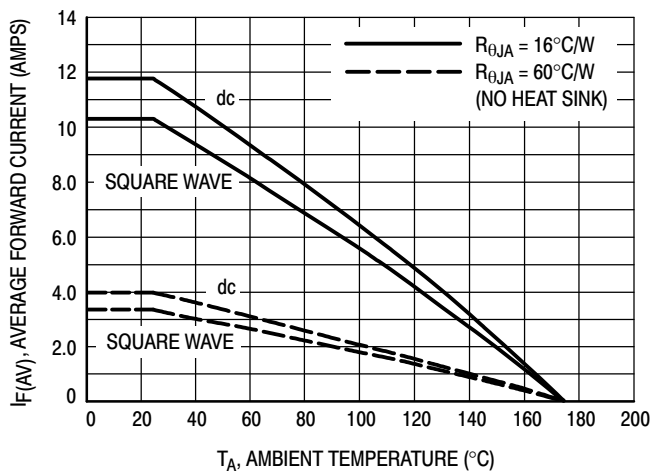


Figure 4. Current Derating, Ambient

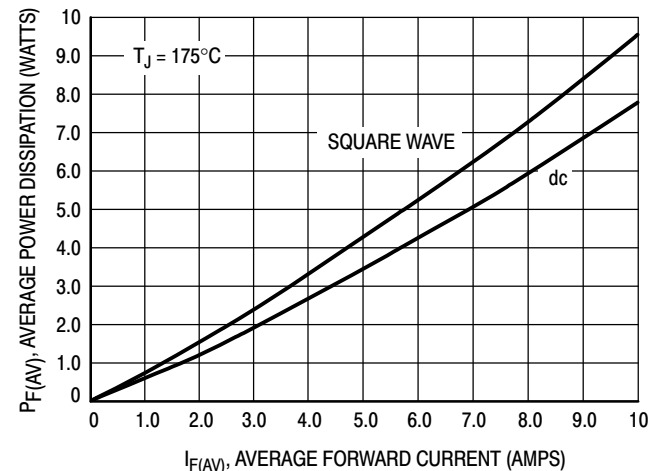


Figure 5. Power Dissipation

SUPERFAST RECOVERY RECTIFIER

RATINGS AND CHARACTERISTIC CURVES MURF805G THRU MURF860G

