
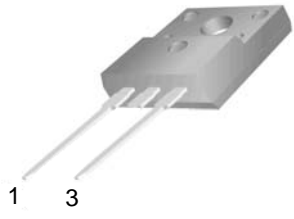



<p>MURF805 – MURF860</p> <p>Features:</p> <ul style="list-style-type: none"> <input type="checkbox"/> High surge capacity <input type="checkbox"/> Low Forward Voltage Drop. <input type="checkbox"/> High Current Capability. <input type="checkbox"/> Super Fast Switching Speed For High Efficiency 	<div style="text-align: right;">  </div> <p style="text-align: center;">TO-220F -2L</p> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <p style="text-align: center;">1. Cathode 3. Anode</p>
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Absolute Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	MUR F805	MUR F810	MUR F815	MUR F820	MUR F830	MUR F840	MUR F860	Unit
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	150	200	300	400	600	V
Maximum RMS Voltage	V_{RMS}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	$V_{R(DC)}$	50	100	150	200	300	400	600	V
Average Rectified Forward Current Total Device, (Rated V_R), $T_C = 25^\circ\text{C}$	$I_{F(AV)}$	8							A
Nonrepetitive Peak Surge Current(Surge applied at rated load conditions half wave, single phase, 60 Hz)	I_{FSM}	100							A
Operating Junction Temperature and Storage Temperature	T_J, T_{stg}	-50 to +150							°C
Maximum Thermal Resistance, Junction-to-Case	$R_{\theta JC}$	3.0				2.0			°C/W

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	MUR F805	MUR F810	MUR F815	MUR F820	MUR F830	MUR F840	MUR F860	Unit
Forward Voltage (Note 1) $(I_F = 8A, T_C = 25^\circ\text{C})$ $(I_F = 8A, T_C = 125^\circ\text{C})$	V_F	0.975 0.895			1.30 1.00		1.75 1.20		V
Maximum Instantaneous Reverse Current (Note 1) (Rated DC Voltage, $T_C = 25^\circ\text{C}$) (Rated DC Voltage, $T_C = 125^\circ\text{C}$)	I_R	5 250			10 500			μA	
Maximum Reverse Recovery Time ($I_F = 0.5\text{ A}, I_R = 1.0\text{ A}, I_{REC} = 0.25\text{ A}$)	T_{RR}	35			35			ns	

Note 1.Pulse Test: Pulse Width = 300 μs , Duty Cycle $\leq 2.0\%$

Typical Characteristics

FIG.1 – TYPICAL FORWARD CHARACTERISTIC

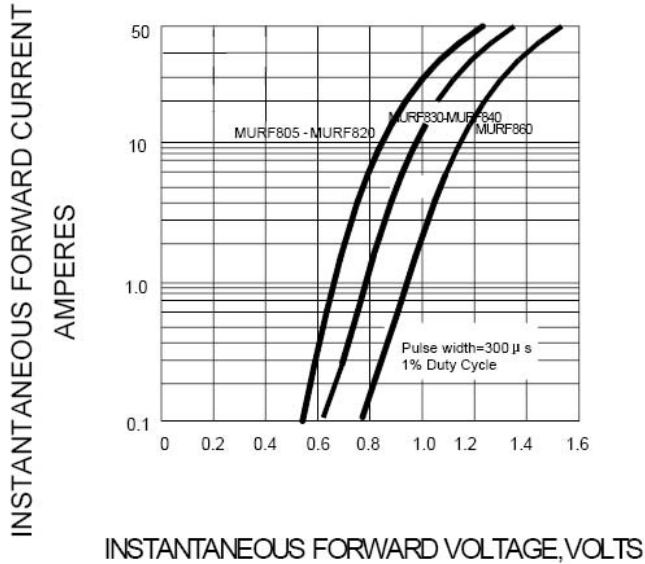


FIG.2 – TYPICAL REVERSE CHARACTERISTICS

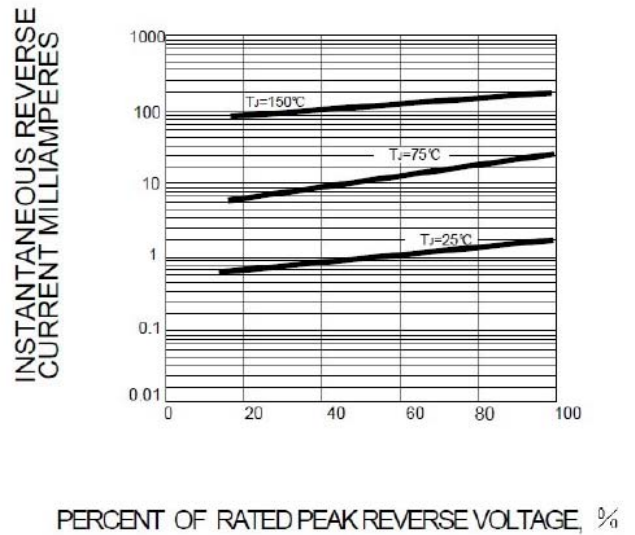


FIG.3 – PEAK FORWARD SURGE CURRENT

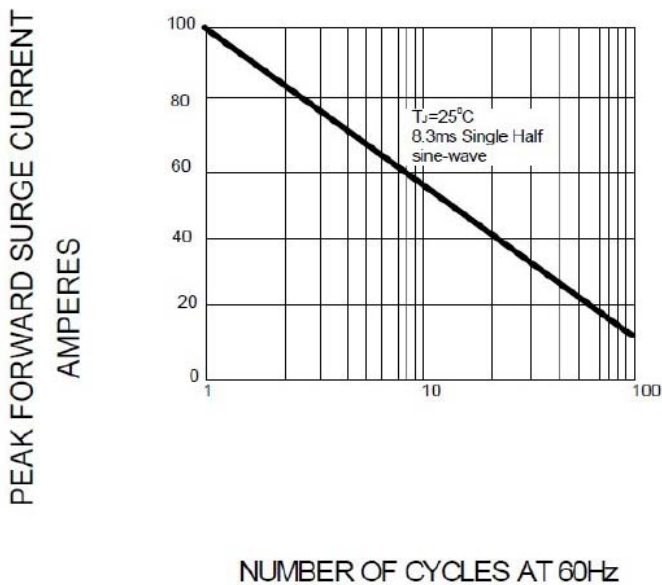
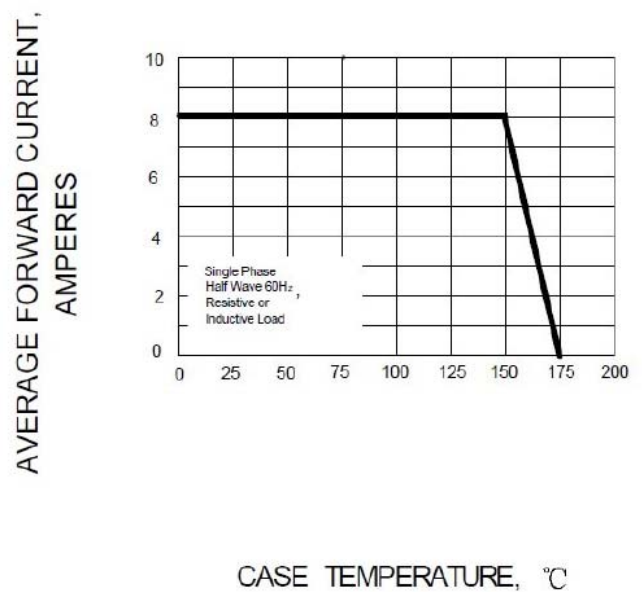


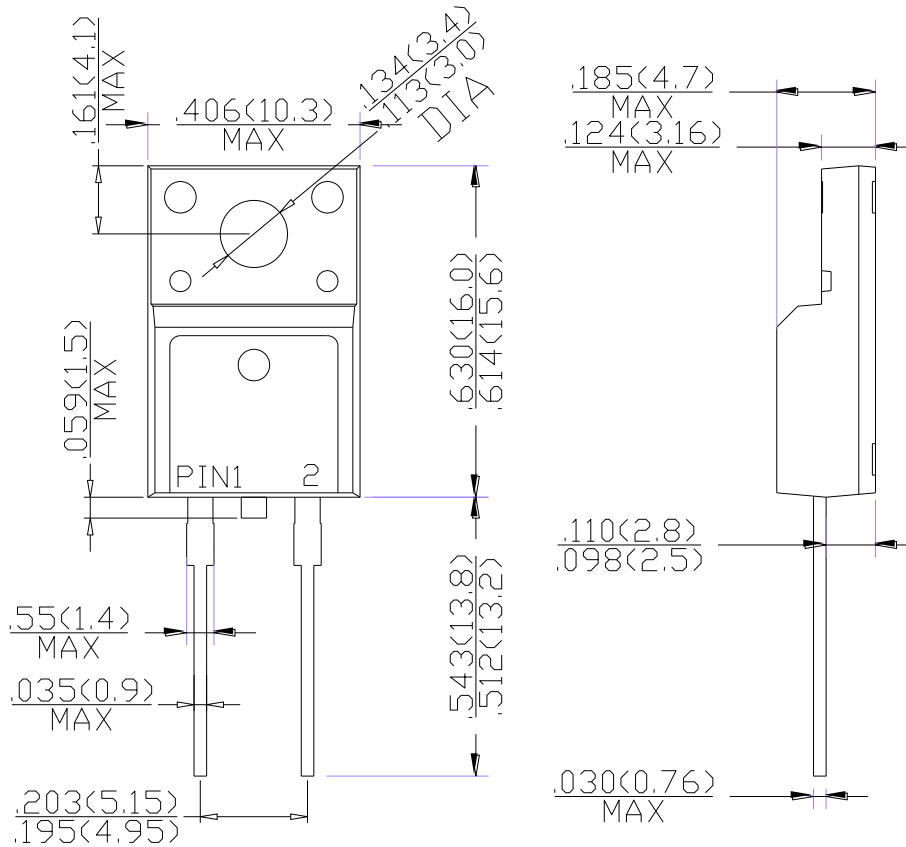
FIG.4 – FORWARD DERATING CURVE



Package Dimension

TO-220F -2L

Unit: mm



Dimensions in inches and (millimeters)