SENSITRON SEMICONDUCTOR

Data Sheet M2630, Rev.A

MURF1040 ULTRAFAST PLASTIC RECTIFIER

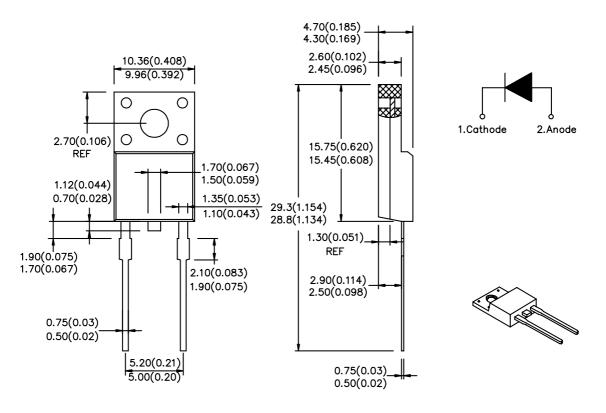
Features:

- Utra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

Mechanical Data:

- Case: ITO-220AC Full Molded Plastic
- Terminals: Plated Leads, Solderable per MIL-STD-202, Method 208
- Weight: 2.0 grams (approx.)
- Marking: Type Number
- Mounting Position: Any

Mechanical Dimensions: In mm / Inches



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Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V _{RWM}	-	400	V
Max. Average Forward	lo _(AV)	50Hz, Sine wave,T _c =86℃	10	A
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	50Hz, Half Sine wave	120	А

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop (Per leg)*	V _F	@ I _F =7.5A, Pulse, T _J = 25 $^{\circ}$ C	1.26	V
Max. Reverse Current (Per leg)*	I _{R1}	@V _R = rated V _R T _J = 25℃	10	μA
	I _{R2}	$@V_R = rated V_R$ $T_J = 125^{\circ}C$	1.0	mA
Max.ReverseRecoveryTime (Per leg)*	t _{rr}	I_F =500mA, I_R =1A,and I_m =250mA	50	ns

* Pulse width < 300 μ s, duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units	
Max. Junction Temperature	TJ	-	-55 to +150	°C	
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C	
Maximum Thermal Resistance Junction to Case	R _{θJC}		2	°C /W	
Approximate Weight	wt	-	2	g	
Case Style	ITO-220AC				

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