

Green Products

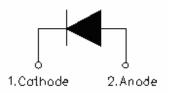
MURF540 ULTRAFAST PLASTIC RECTIFIER

Applications:

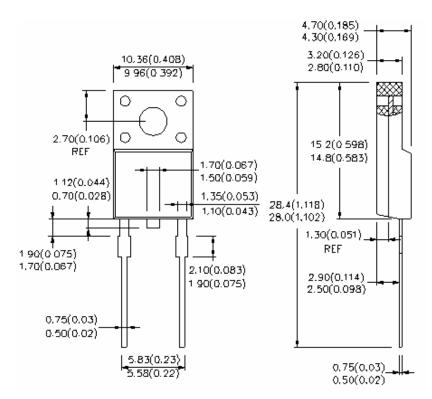
- Switching Power Supply
- Power Switching Circuits
- General Purpose

Features:

- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- · Additional testing can be offered upon request



Mechanical Dimensions: In Inches / mm



ITO-220AC

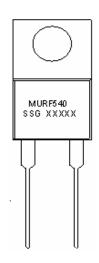
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Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type F = Package type

5 = Forward Current (5A) 40 = Reverse Voltage (400V)

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
MURF540	ITO-220AC (Pb-Free)	50pcs / tube

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	400	V
Max. Average Forward	lo _(AV)	50% duty cycle @Tc=86°C, rectangular wave form	5	А
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	50Hz, Half Sine wave	80	Α

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F}	@ I _F =5A, Pulse, T _J = 25℃	1.3	V
	I _{R1}	@V _R = rated V _R	5	μA
Max. Reverse Current		T _J = 25℃		
	I_{R2}	@V _R = rated V _R	500	μA
		T _J = 150℃		
Max. Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_m =250mA	40	ns

 $^{^*}$ Pulse width < 300 μ s, duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +150	$^{\circ}$
Max. Storage Temperature	T _{stg}	-	-55 to +150	$^{\circ}$
Maximum Thermal	$R_{\theta JC}$	DC operation	3.5	°C /W
Resistance Junction to Case				
Approximate Weight	wt	-	1.6	g
Case Style		ITO-220AC		





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