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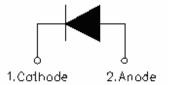
MUR1560 ULTRAFAST PLASTIC RECTIFIER

Applications:

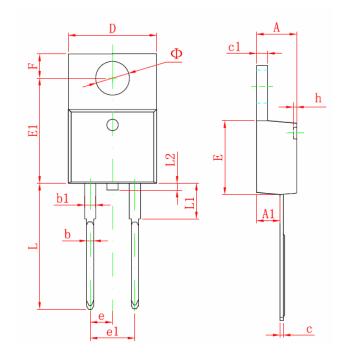
- Switching Power Supply
- Power Switching Circuits
- General Purpose

Features:

- Utra-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 mm



Symbol	Dimensions In Millimeters		
	Min	Max	
Α	4.470	4.670	
A1	2.520	2.820	
b	0.710	0.910	
b1	1.170	1.370	
С	0.310	0.530	
c1	1.170	1.370	
D	10.010	10.310	
E	8.500	8.900	
E1	12.060	12.460	
е	2.540 TYP		
e1	4.980	5.180	
F	2.590	2.890	
h	0.000	0.300	
L	13.400	13.800	
L1	3.560	3.960	
L2		1.000	
Φ	3.735	3.935	

TO-220AC

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Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type

= Forward Current (15A) = Reverse Voltage (600V)

SSG = SSG YY = Year WW = Week L = Lot Number

Cautions: Molding resin Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
MUR1560	TO-220AC	FOres / tube
	(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}	-	600		V
Max. Average Forward	I _{F (AV)}	50% duty cycle @Tc=100°C, rectangular wave form	15		Α
Max. Peak One Cycle Non- Repetitive Surge Current	I _{ESM}	8.3ms, Half Sine pulse	T _J =45°C	110	Δ
(Per leg)	i-SM	o.omo, man emo puloc	T _J =150°C	95	

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Electrical Characteristics:

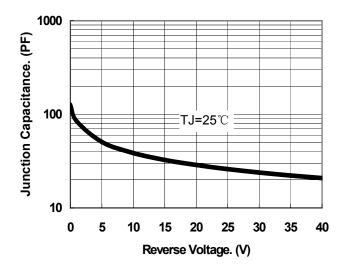
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V_{F1}	@ 15A, Pulse, T _J = 25°C	1.7	V
	V_{F2}	@ 15A, Pulse, T _J = 150°C	1.5	V
	I _{R1}	@V _R = rated V _R	25	μA
Max. Reverse Current*		$T_J = 25^{\circ}C$		
	I_{R2}	$@V_R = rated V_R$	1	mA
		T _J = 125°C		
Max.ReverseRecoveryTime	t _{rr}	I_F =500mA, I_R =1A,and I_{rm} =250mA	50	ns

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

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +150	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	DC operation	1.5	°C/W
Approximate Weight	wt	-	2	g
Case Style	TO-220AC			

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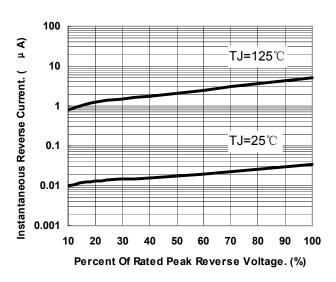


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

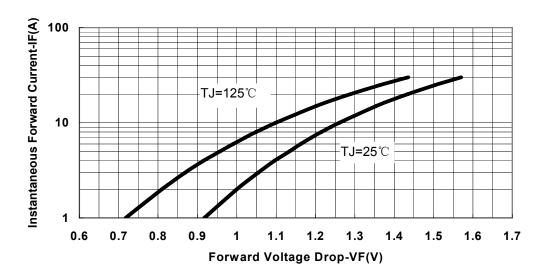


Fig.3-Typical Forward Voltage Drop Characteristics

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MUR1560

Technical Data Data Sheet N0242, Rev. - **Green Products**

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