Green Products

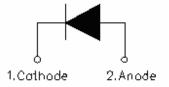
MUR1040 ULTRAFAST PLASTIC RECTIFIER

Applications:

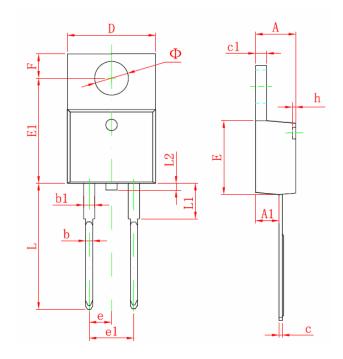
- Switching Power Supply
- Power Switching Circuits
- General Purpose

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	
Ф	3.735	3.935	

TO-220AC

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Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type

10 = Forward Current (10A) 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
MUR1040	TO-220AC	FOnce / 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}	-	400	V
Max. Average Forward	lo _(AV)	50% duty cycle @Tc=86°C, rectangular wave form	10	Α
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	50Hz, Half Sine wave	120	А

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Electrical Characteristics:

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

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

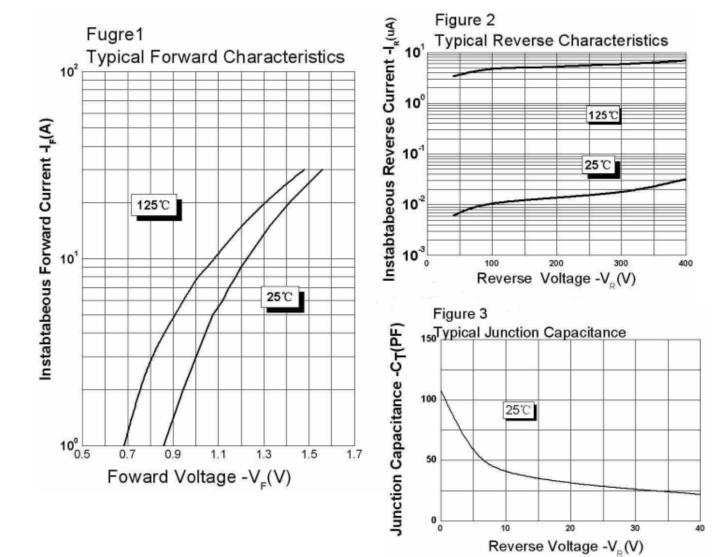
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +150	$^{\circ}\mathbb{C}$
Max. Storage Temperature	T _{stg}	-	-55 to +150	$^{\circ}\mathbb{C}$
Maximum Thermal	$R_{\theta JC}$	DC operation	2	°C /W
Resistance Junction to Case				
Approximate Weight	wt	-	1.6	g
Case Style	TO-220AC			





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MUR1040

Technical Data Data Sheet N0280, Rev. - **Green Products**

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