

Green Products

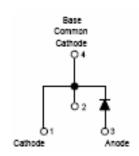
MURD1560 ULTRAFAST PLASTIC RECTIFIER

Applications:

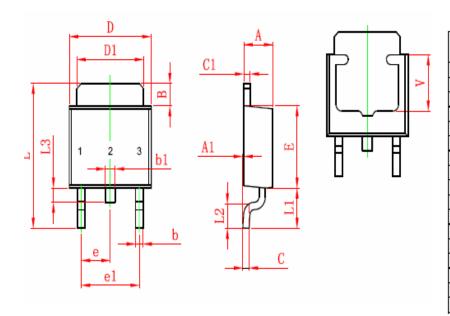
- Switching Power Supply
- Power Switching Circuits
- General Purpose

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 mm):



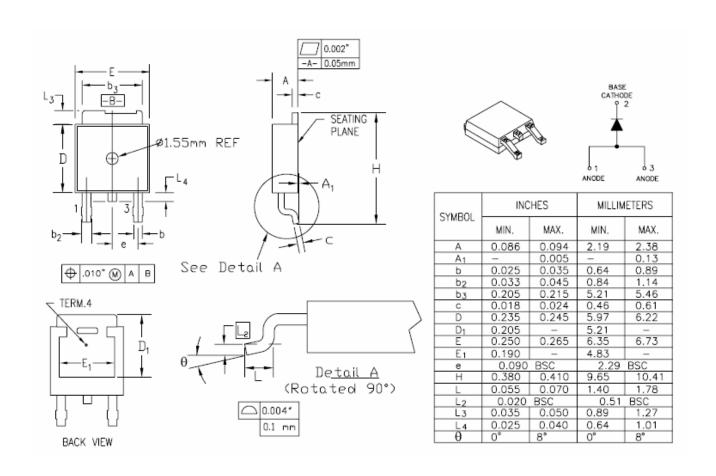
Symbol	Dimensions In Millimeters		
	Min.	Max.	
A	2.200	2.400	
A1	0.000	0.127	
В	1.350	1.650	
b	0.500	0.700	
b1	0.700	0.900	
С	0.430	0.580	
c1	0.430	0.580	
D	6.350	6.650	
D1	5.200	5.400	
E	5.400	5.700	
е	2.300 TYP.		
e1	4.500	4.700	
L	9.500	9.900	
L1	2.550	2.900	
L2	1.400	1.780	
L3	0.600	0.900	
V	3.800 REF.		

OPTION 1

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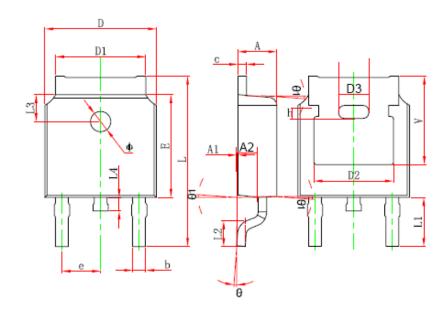
OPTION 2

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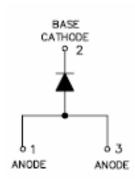
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C. mah al	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
A	2.200	2.380	0.087	0.094	
A1	0.000	0.100	0.000	0.004	
b	0.710	0.810	0.028	0.032	
С	0.460	0.560	0.018	0.022	
D	6.500	6.700	0.256	0.264	
D1	5.130	5.460	0.202	0.215	
D2	4.830 REF.		0.190	REF.	
E	6.000	6.200	0.236	0.244	
е	2.186	2.386	0.086	0.094	
L	9.800	10.400	0.386	0.409	
L1	2.900	REF.	0.114 REF.		
L2	1.400	1.700	0.055	0.067	
L3	1.600 REF.		0.063 REF.		
L4	0.600	1.000	0.024	0.039	
Φ	1.100	1.300	0.043	0.051	
θ	0°	8°	0°	8°	
A2	0.910	1.110	0.036	0.044	
V	5.350 REF.		0.211	REF.	
D3	1.778REF.		0.070	REF.	
h	0.762	0.762REF. 0.030REF.		REF.	
€1	7° 7°				



OPTION 3

DPAK



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Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type D = Package type

15 = Forward Current (15A) 60 = 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
MURD1560	DPAK	2500 pcs / reel
	(Pb-Free)	2500 pcs / Teel

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	Α
(Per leg)	I-2M	o.omo, riam omo paroc	T _J =150°C	95	, ,

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Electrical Characteristics:

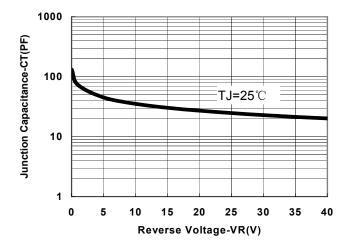
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V_{F1}	@ 15A, Pulse, T _J = 25°C	1.7	V
	V_{F2}	@ 15A, Pulse, T _J = 150°C	1.5	V
	I _{R1}	@V _R = rated V _R	50	μA
Max. Reverse Current*		$T_J = 25^{\circ}C$		
	I_{R2}	@V _R = rated V _R	3	mA
		$T_J = 125$ °C		
Max. Reverse Recovery Time	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	Ô
Max. Storage Temperature	T_{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	$R_{\theta JA}$	DC operation	80	°C/W
Approximate Weight	wt	-	0.39	g
Case Style		DPAK		

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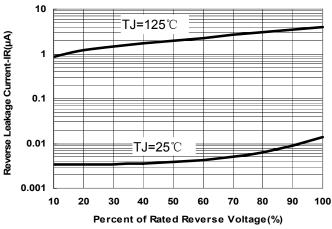


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

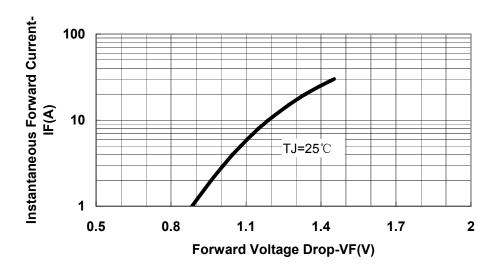


Fig.3-Typical Forward Voltage Drop Characteristics

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