

Technical Data Data Sheet N0338, Rev. - Green Products

MURD1560 ULTRAFAST PLASTIC RECTIFIER

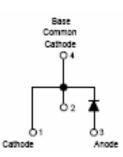
Applications:

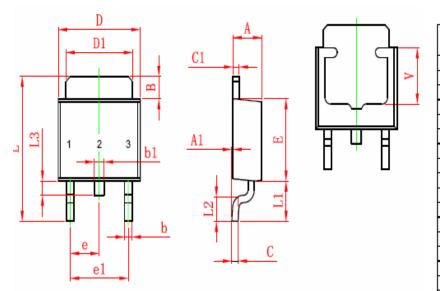
- Switching Power Supply
- Power Switching Circuits
- General Purpose

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):





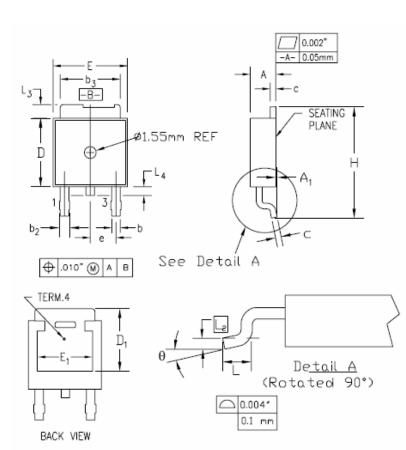
Symbol	Dimensions	In Millimeters	
Symbol	Min.	Max.	
A	2.200	2.400	
A1	0.000	0.127	
В	1.350	1.650	
b	0.500	0.700	
b1	0.700	0.900	
С	0.430	0.580	
c1	0.430	0.580	
D	6.350	6.650	
D1	5.200	5.400	
E	5.400	5.700	
e	2.300	TYP.	
e1	4.500	4.700	
L	9.500	9.900	
L1	2.550	2.900	
L2	1.400	1.780	
L3	0.600	0.900	
V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

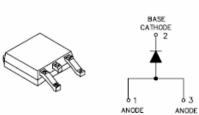
OPTION 1

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SYMBOL	INCHES		MILLIMETERS	
SIMDUL	MIN.	MAX.	MIN.	MAX.
A	0.086	0.094	2.19	2.38
A1	-	0.005	-	0.13
b	0.025	0.035	0.64	0.89
b2	0.033	0.045	0.84	1.14
b3	0.205	0.215	5.21	5.46
С	0.018	0.024	0.46	0.61
D	0.235	0.245	5.97	6.22
D1	0.205	-	5.21	-
E	0.250	0.265	6.35	6.73
E1	0.190	-	4.83	-
е	0.090 BSC		2.29 BSC	
Н	0.380	0.410	9.65	10.41
L	0.055	0.070	1.40	1.78
L2	0.020 BSC		0.51 BSC	
L3	0.035	0.050	0.89	1.27
L4	0.025	0.040	0.64	1.01
θ	0°	8°	0°	8°

OPTION 2

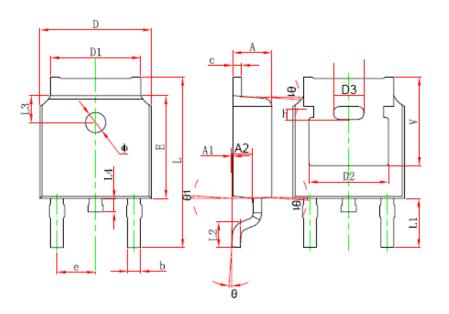


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BASE CATHODE 9 2

61 ANODE ό3

ANODE



Symbol	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.		0.070REF.		
h	0.762REF.		0.030REF.		
0 1	7° 7°		•		



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	
MURD 1500	(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		A
Max. Peak One Cycle Non- Repetitive Surge Current	l	8.3ms, Half Sine pulse	T _J =45°C	110	Δ
(Per leg)	IFSM		Т _Ј =150°С	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
Max. Reverse Current*	I _{R1}	$@V_R = rated V_R$ T _J = 25°C	50	μA
	I _{R2}	$@V_R = rated V_R$ T _J = 125°C	3	mA
Max. Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_{rm} =250mA	50	ns

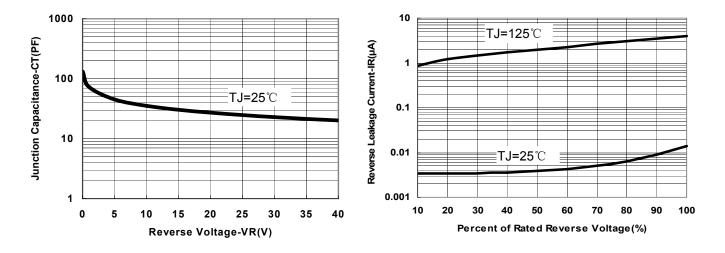
* Pulse width < 300 μ s, duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	TJ	-	-55 to +150	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal	R _{0JA}	DC operation	80	°C/W
Resistance Junction to Case				
Approximate Weight	wt	-	0.39	g
Case Style		DPAK		



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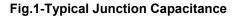


Fig.2-Typical Reverse Characteristics

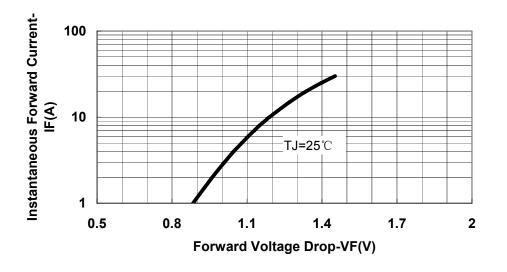


Fig.3-Typical Forward Voltage Drop Characteristics



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