

Green Products

MURD620CT ULTRAFAST RECTIFIER

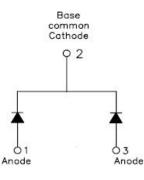
Applications:

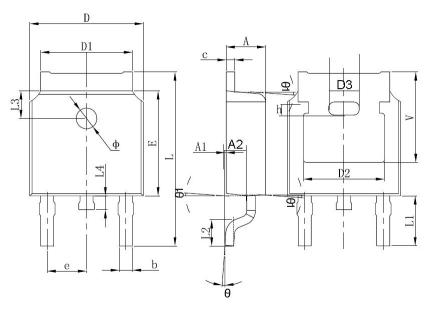
- Switching Power Supply
- Power Switching Circuits
- General Purpose

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/Inches):





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			REF.	
D3	1.778REF.		0.070	REF.
h	0.762REF.		0.030	REF.
0 1	7°	Constant -	7	•

DPAK



Marking Diagram:

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Where XXXXX is YYWWL

MUR	= Device Type
D	= Package type
6	= Forward Current (6A)
20	= Reverse Voltage (200V)
СТ	= Configuration
SSG	= SSG
YY	= Year
WW	= Week
L	= Lot Number

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

MURD620CT SSG XXXXX

Ordering Information:

Device	Package	Shipping
MURD620CT	DPAK	2500ppp/rppl
MURD620CT	(Pb-Free)	2500pcs/ reel

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 Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	200	V
Average Forward Current (Per device)	I _{F(AV)}	50% duty cycle @Tc=90°C, rectangular wave form	6	А
Peak One Cycle Non-Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	80	A

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop (Per leg)*	VF	@ I _F =3A, Pulse, T _J = 25℃	1.2	V
Reverse Current	I _{R1}	@V _R = rated V _R T _J = 25℃	5	μA
(Per leg)*	I _{R2}	@V _R = rated V _R T _J = 125℃	500	μA
Reverse Recovery Time (Per leg)	t _{rr}	I_F =500mA, I_R =1A,and I_m =250mA	35	ns

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

Thermal-Mechanical Specifications:

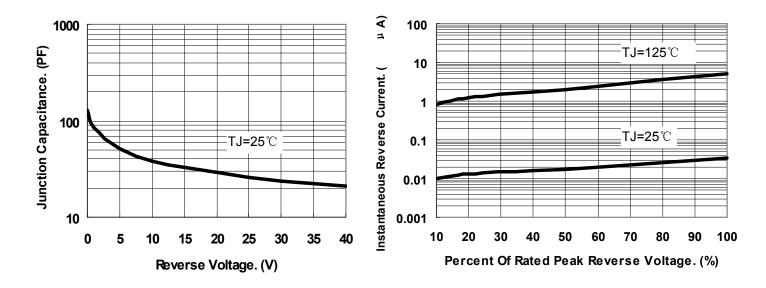
Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Case	R _{θJC}	DC operation	3.5	°C/W
Approximate Weight	wt	-	0.39	g
Case Style	DPAK			



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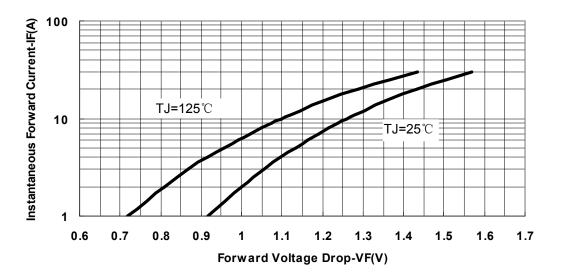


Fig.3-Typical Forward Voltage Drop Characteristics



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