

Technical Data Data Sheet N1477, Rev. - **Green Products**

MURD1040CTR ULTRAFAST PLASTIC RECTIFIER

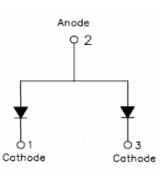
Applications:

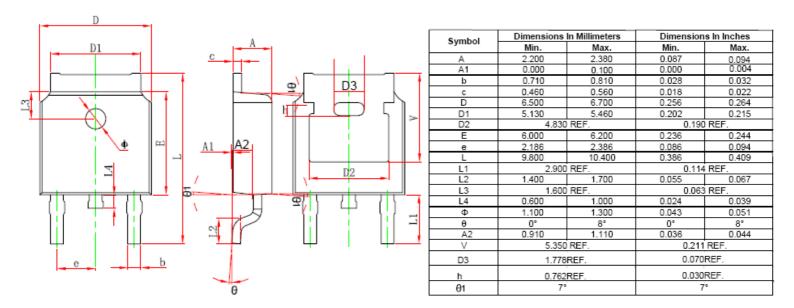
- Switching Power Supply
- Power Switching Circuits
- General Purpose

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/Inches):





DPAK

Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 (86) 25-87123907 •
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Marking Diagram:



Where XXXXX is YYWWL

MUR	= Device Type
D	= Package type
10	= Forward Current (10A)
40	= Reverse Voltage (400V)
CTR	= Configuration
SSG	= SSG
YY	= Year
WW	= Week
L	= Lot Number

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

Ordering Information:

Device	Package	Shipping
MURD1040CTR	DPAK	2500pcs/ reel
MORD 1040011	(Pb-Free)	2000003/1001

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
Average Forward Current	I _{F(AV)}	50% duty cycle @Tc=100℃, rectangular wave form	10	A
Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	50Hz, Half Sine wave	150	A

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop (Per leg)*	V _{F1}	@ I _F =5A, Pulse, T _J = 25℃	1.3	V
Reverse Current (Per leg)*	I _{R1}	@V _R = rated V _R T _J = 25℃	10	μA
	I _{R2}	@V _R = rated V _R T _J = 100℃	400	μA
Reverse Recovery Time (Per leg)*	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
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case (Per Leg)	$R_{ extsf{ heta}JC}$	DC operation	1.5	°C/W
Approximate Weight	wt	-	0.39	g
Case Style		DPAK		



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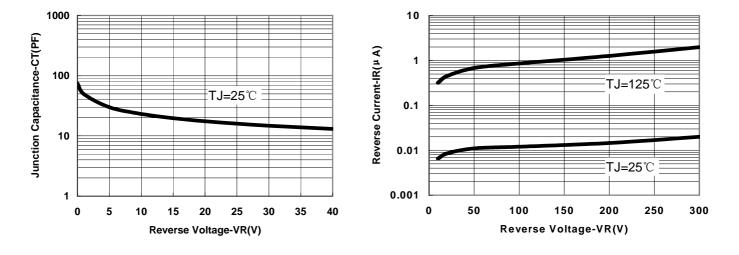


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

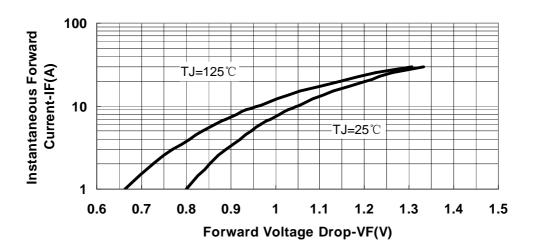


Fig.3-Typical Instantaneous Forward Characteristics



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