

MURF2020CT

Technical Data Data Sheet N0355, Rev. - **Green Products**

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MURF2020CT ULTRAFAST RECTIFIER

Applications:

- Switching Power Supply
- Power Switching Circuits
- General Purpose

Features:

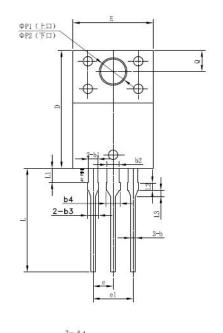
• Ultra-Fast Switching

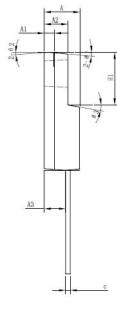
Mechanical Dimensions: In mm

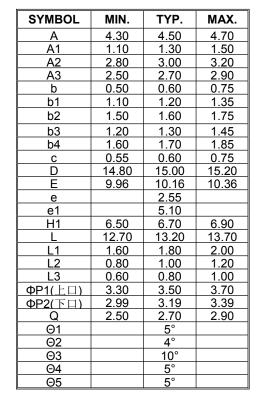
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Center Tap

OUTLINE DRAWING









ITO-220AB

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com -

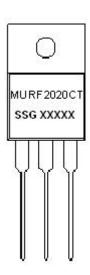


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Marking Diagram:



Where XXXXX is YYWWL

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

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

Ordering Information:

Device	Package	Shipping
MURF2020CT	ITO-220AB	50pcs / tube
	(Pb-Free)	Sopes / 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 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=85°C, rectangular wave form	20	A
Peak One Cycle Non-Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	100	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop(Per	V _{F1}	@ 10A, Pulse, T」= 25°C	1.2	V
leg)*	V _{F2}	@ 10A, Pulse, T」= 125°C	1.0	V
	I _{R1}	@V _R = rated V _R	10	μA
Reverse Current(Per leg)*		T _J = 25°C		
	I _{R2}	@V _R = rated V _R	100	μA
		T _J = 125°C		
Reverse Recovery Time	trr	I_F =500mA, I_R =1A,and I_{rm} =250mA	35	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
Typical Thermal Resistance Junction to Case	R _{θJC}	DC operation	5.0	°C/W
Approximate Weight	wt	-	2.0	g
Case Style		ITO-220AB		



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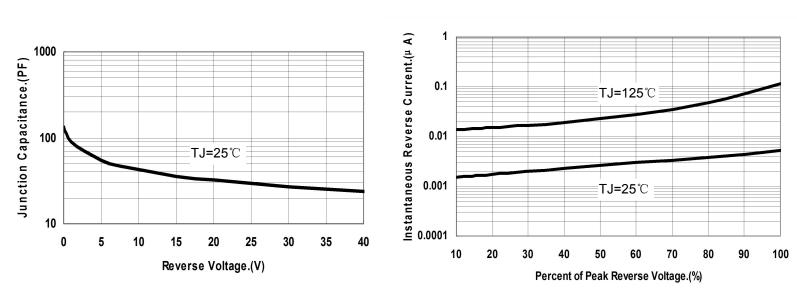
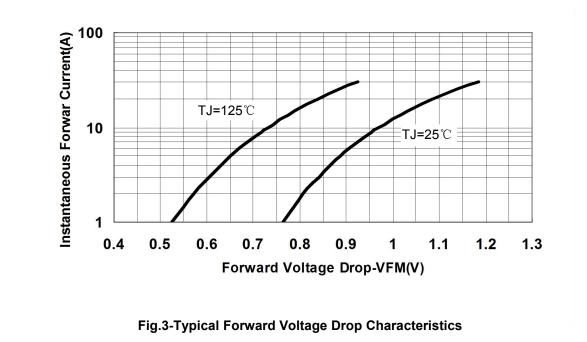


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics





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