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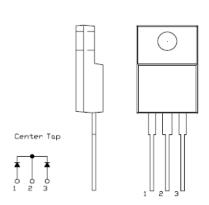
SBRF3060CT SCHOTTKY RECTIFIER

Applications:

- · Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

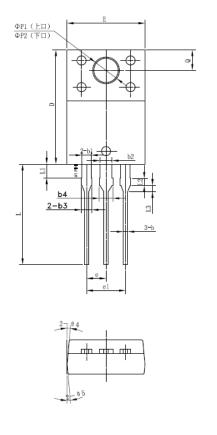
Features:

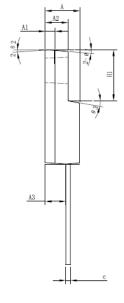
- 150 °C T₃ operation
- Center tap configuration
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- High frequency operation
- · Guard ring for enhanced ruggedness and long term reliability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



OUTLINE DRAWING

Mechanical Dimensions: In mm



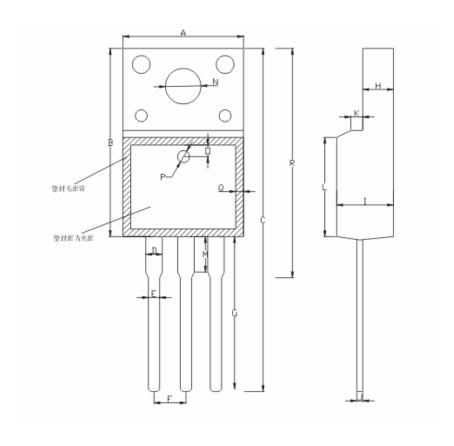


SYMBOL	MIN.	TYP.	MAX.	
Α	4.30	4.50	4.70	
A A1	1.10	1.30	1.50	
A2	2.80	3.00	3.20	
A2 A3 b	2.50	3.00 2.70 0.60 1.20	2.90 0.75 1.35	
b	0.50	0.60	0.75	
b1	1.10	1.20	1.35	
b2	2.50 0.50 1.10 1.50	1.60	1./5	
b3	1.20	1.30	1.45	
	1.60	1.70	1.85	
b4 c D E	0.55	0.60	0.75	
D	14.80	15 00	15.20	
E	9.96	10.16 2.55 5.10	10.36	
е		2.55		
e1		5.10		
e1 H1 L	6.50	6 70	6.90	
L	12.70	13.20 1.80 1.00 0.80	13.70	
L1	1.60	1.80	2.00	
L2	0.80	1.00	1.20	
L1 L2 L3	0.60	0.80	1.00	
ΦP1(上口)	3.30	1 3.50	2.00 1.20 1.00 3.70	
ΦP2 (下口)	2.99	3.19	3.39	
Q Θ1	2.50	2.70	2.90	
Θ1		3.19 2.70 5°		
Θ2 Θ3 Θ4		4° 10°		
Θ3		10°		
Θ4		5°		
Θ5		5°		

OPTION 1(HD)

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A:10.20	± 0.50	B:15.90	±0.50	C:29.00	±1.00	D:1.24	± 0.10
E:0.80	± 0.10	F:2.54	± 0.10	G:13.10	$\pm 1,0$	H:2.55	± 0.05
I:4.70	±0.05	J:0.50	± 0.05	K:1.20	± 0.20	L:8.00	±0.50
M:3.00	±0.50	N:3.20	± 0.20	O:1,25	± 0.05	P:1.5	± 0.05
Q:1.0	±0.20	R:19.2	±1.0				

OPTION 2(SR)

ITO-220AB

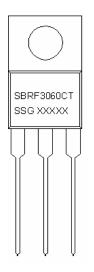
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Marking Diagram:



Cautions: Molding resin

Epoxy resin UL:94V-0

Where XXXXX is YYWWL

SBR = Device Type F = Package type

30 = Forward Current (30A) 60 = Reverse Voltage (60V)

CT = Configuration

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Ordering Information:

Device	Package	Shipping
SBRF3060CT	ITO-220AB (Pb-Free)	50pcs / 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 Inverse Voltage	V_{RWM}	-	60	V
Max. Average Forward	I _{F(AV)}	50% duty cycle @T _C =105°C, rectangular wave form	30	Α
Max. Peak One Cycle Non-Repetitive Surge Current (per leg)	I _{FSM}	8.3ms,50Hz Full Sine Wave, 1Cycle Non-repetitive	150	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop (per leg) *	V _{F1}	@ 15 A, Pulse, T₁ = 25°C	0.8	V
Max. Reverse Current (per leg)	l _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25 ^{\circ}\text{C}$	1.0	mA
Max. Junction Capacitance (per leg)	Ст	@V _R = 4V, T _C = 25°C f _{SIG} = 1MHz	400	pF
Max. Voltage Rate of Change	dv/dt	-	10,000	V/us

Pulse Width < 300µs, Duty Cycle <2%

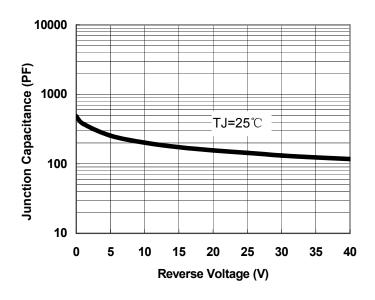
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units	
Max. Junction Temperature	T_J	-	-55 to +150	°C	
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C	
Maximum Thermal Resistance Junction toCase	$R_{ heta JC}$	DC operation	2.3	°C/W	
Typical Thermal Resistance Case to Heat Sink	$R_{ heta CS}$	Mounting surface, smooth and greased (only for TO-220)	0.50	°C/W	
Approximate Weight	wt	-	2.0	g	
Case Style	ITO-220AB				

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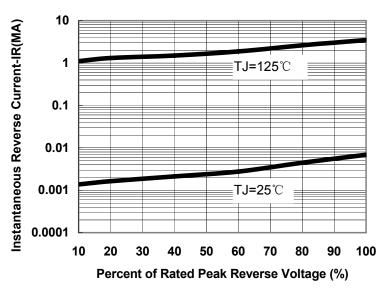


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

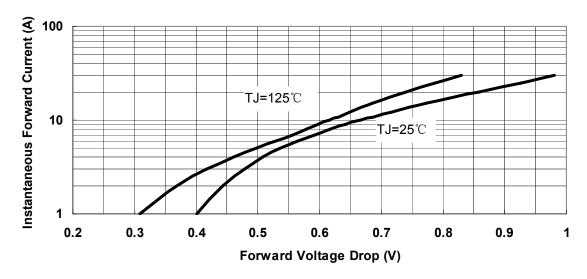


Fig.3-Typical Instantaneous Forward Voltage Characteristics

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SBRF3060CT

Technical Data Data Sheet N0633, Rev. - Green Products

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