Green Products

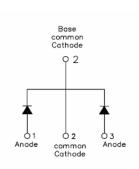
SK2060C SCHOTTKY RECTIFIER

Applications:

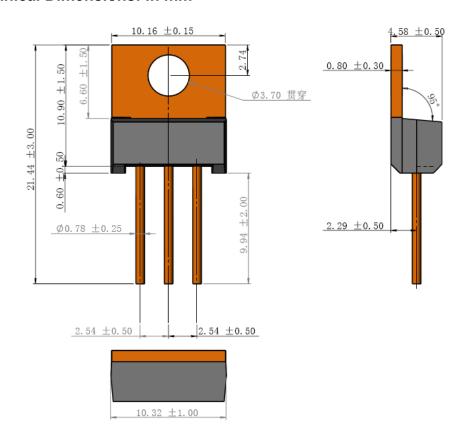
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

Features:

- 150°C T_J 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



Mechanical Dimensions: In mm



TO-220AB

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Marking Diagram:



Where XXXXX is YYWWL

 SK2060C
 = Part Name

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
Sk2060C	TO-220AB	FOrce / tube
	(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	20	А
Max. Peak One Cycle Non-Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	180	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop (per leg)*	V_{F1}	@ 10A, Pulse, T _J = 25 °C	0.8	V
	V _{F2}	@ 10A, Pulse, T _J = 125 °C	0.7	V
Max. Reverse Current at DC	I _{R1}	$@V_R = \text{rated } V_R, T_J = 25 ^{\circ}\text{C}$	1.0	mA
condition (per leg)	l _{R2}	$@V_R = \text{rated } V_R, T_J = 125 ^{\circ}\text{C}$	30.0	mA
Max. Junction Capacitance	C _T	@V _R = 5V, T _C = 25 °C	300	pF
(per leg)		$f_{SIG} = 1MHz$		
Max. Voltage Rate of Change	dv/dt	-	10,000	V/μs

^{*} Pulse Width < 300 μ s, 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 to Case (per leg)	$R_{ heta JC}$	DC operation	3.5	°C/W
Approximate Weight	wt	-	2.0	g
Case Style		TO-220AB		

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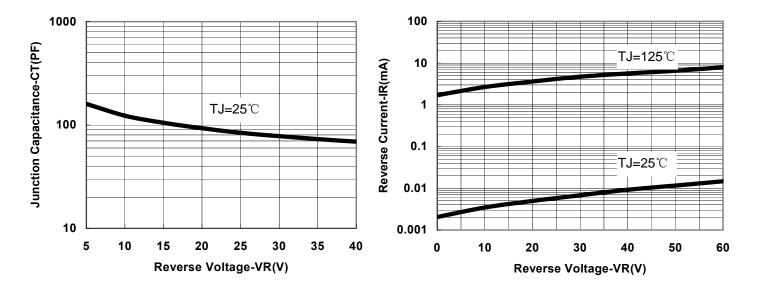


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

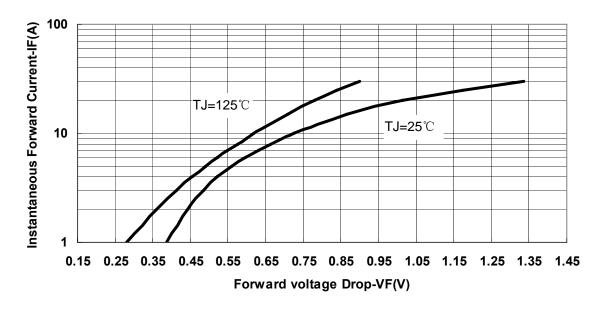


Fig.3-Typical Instantaneous Forward Voltage Characteristics

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SK2060C

Technical Data Data Sheet N0108, Rev. - **Green Products**

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