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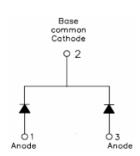
SK20150C SCHOTTKY RECTIFIER

Applications:

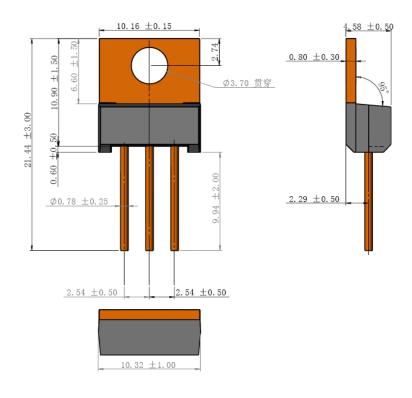
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

Features:

- 150°C TJ 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:

SK20150C SSG XXXXX Where XXXXX is YYWWL

SK = Device Type

20 = Forward Current (20A) 150 = Reverse Voltage (150V)

C = Configuration

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
SK20150C	TO-220AB (Pb-Free)	50 pcs / 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}	-	150	V
Max. Average Forward	I _{F(AV)}	50% duty cycle @T _C =100°C, rectangular wave form	20	А
Max. Peak One Cycle Non-Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	220	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 10A, Pulse, T _J = 25 °C	0.90	V
(per leg) *	V_{F2}	@ 10A, Pulse, T _J = 125 °C	0.80	V
Max. Reverse Current (per	I _{R1}	@V _R = rated V _R	1	mA
leg) *		T _J = 25 °C		IIIA
	I _{R2}	@V _R = rated V _R	6.0	mA
		T _J = 125 °C		IIIA
Max. Junction Capacitance	C_T	$@V_R = 5V, T_C = 25 ^{\circ}C$	400	pF
(per leg)		$f_{SIG} = 1MHz$		
Typical Series Inductance	1.	Measured lead to lead 5 mm from	8.0	nH
(per leg)	L _S	package body	0.0	1111
Max. Voltage Rate of Change	dv/dt	-	10,000	V/μs

Pulse Width $< 300 \mu s$, Duty Cycle < 2%

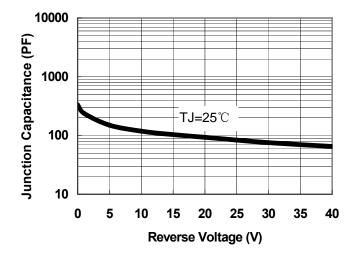
Thermal-Mechanical Specifications:

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	$R_{ ext{ hetaJC}}$	DC operation	3.5	°C/W
(per leg)				
Approximate Weight	wt	-	2	g
Case Style		TO-220AB		

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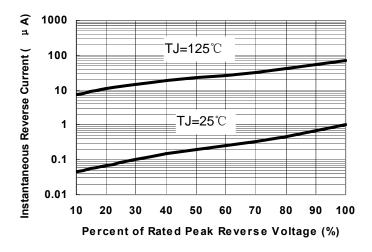


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

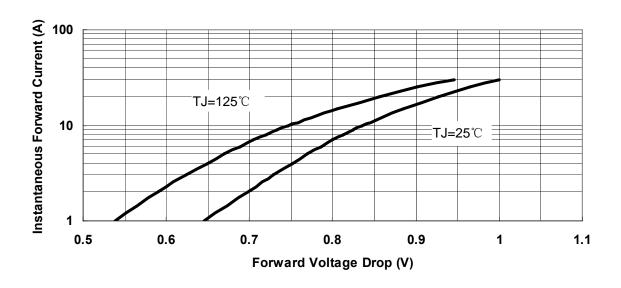


Fig.3-Typical Instantaneous Forward Voltage Characteristics

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