SK52B THRU SK520B

5A Surface Mount Schottky Barrier Rectifiers

Features

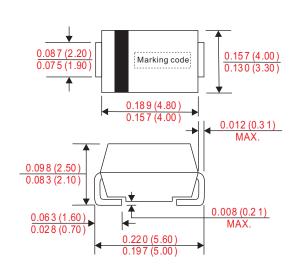
- Electrostatic discharge (ESD) test under IEC6100-4-2 standard >16KV(SK52B~SK56B).
 standard >10KV(SK510B~SK520B).
- Low profile surface mounted application in order to optimize board space.
- · Low power loss, high efficiency.
- High current capability, low forward voltage drop.
- Ultra high-speed switching.
- Silicon epitaxial planar chip, metal silicon junction.
- Suffix "G" indicates Halogen-free part, ex.SK52BG.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, DO-214AA / SMB
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Weight : 0.003 ounce, 0.091 gram

Outline

SMB(DO-214AA)



Dimensions in inches and (millimeters)

Maximum ratings and electrical characteristics

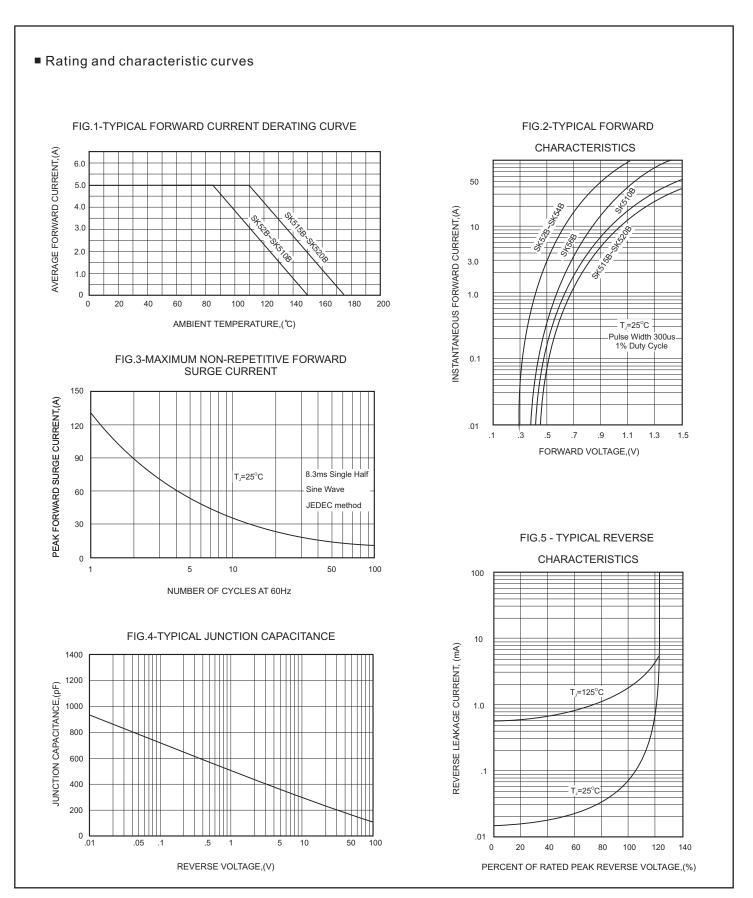
Rating at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter			Conditions			Symbol	MIN.	TYP.	MAX.	UNIT	
Forward rectified current			See Fig.1			I _o			5.0	А	
Forward surge current			8.3ms single half sine-wave superimposed on rate load (JEDEC method)			I _{FSM}			125	А	
Reverse current			$V_{R} = V_{RRM} T_{A} = 25^{\circ}C$ $V_{R} = V_{RRM} T_{A} = 100^{\circ}C$			- I _R			0.5 20	mA	
Diode junction capacitance			f=1MHz and applied 4V DC reverse voltage			C		380		pF	
Thermal resistance		Junction to ambient			R _{eja}		24		°C/W		
Storage temperature					T _{STG}	-55		+175	°C		
Symbol	Marking code	Max. repetitive pea reverse voltag V _{RRM} (V)		Max. DC blocking voltage V _R (V)		forward 005A, T _A = 2 V _F (V)		Oper	Operating temperature T _J (°C)		
SK52B	SK52	20	14	20		0.50					
SK54B	SK54	40	28	40		0.55			-50 ~ +150		
SK56B	SK56	60	42	60		0.75					
	01/540	100	70	100		0.81					
SK510B	SK510								-50 ~ +175		
SK510B SK515B	SK510 SK515	150	105	150		0.87			-50 ~ +1	75	



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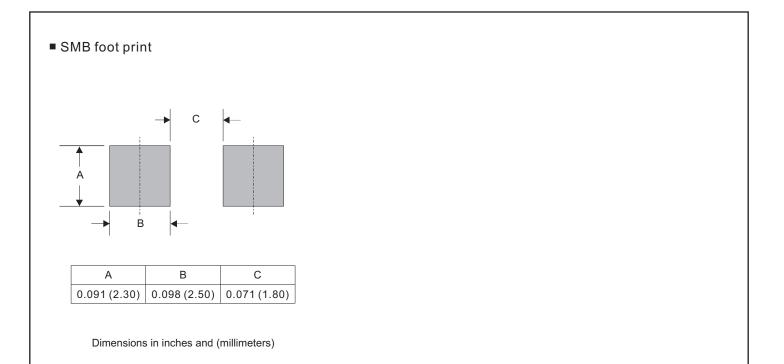


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