

SKS22B THRU SKS26B

2A Surface Mount Schottky Barrier Rectifiers

■ Features

- 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.SKS22BG.
- 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

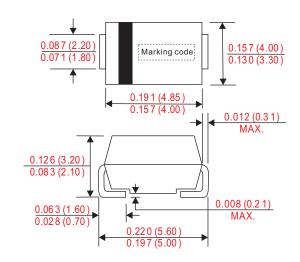
 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Indicated by eath and a board

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		MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1	Io			2.0	Α
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}			50	Α
Barrana	$V_R = V_{RRM} T_A = 25^{\circ}C$				0.5	mA
Reverse current	$V_R = V_{RRM} T_A = 100^{\circ}C$	I _R			20	
Diode junction capacitance	f=1MHz and applied 4V DC reverse voltage	C,		30		pF
Thermal resistance	Junction to ambient	R _{eJA}		50		°C/W
Storage temperature		T _{stg}	-55		+175	°C

Symbol	Marking code	Max. repetitive peak reverse voltage V_RRM (V)		Max. DC blocking voltage $V_R(V)$	Max. forward voltage @2A, $T_A = 25^{\circ}C$ $V_F(V)$	Operating temperature T_J (°C)
SKS22B	KS22	20	14	20	0.35	
SKS24B	KS24	40	28	40	0.40	-55 ~ +150
SKS26B	KS26	60	42	60	0.50	

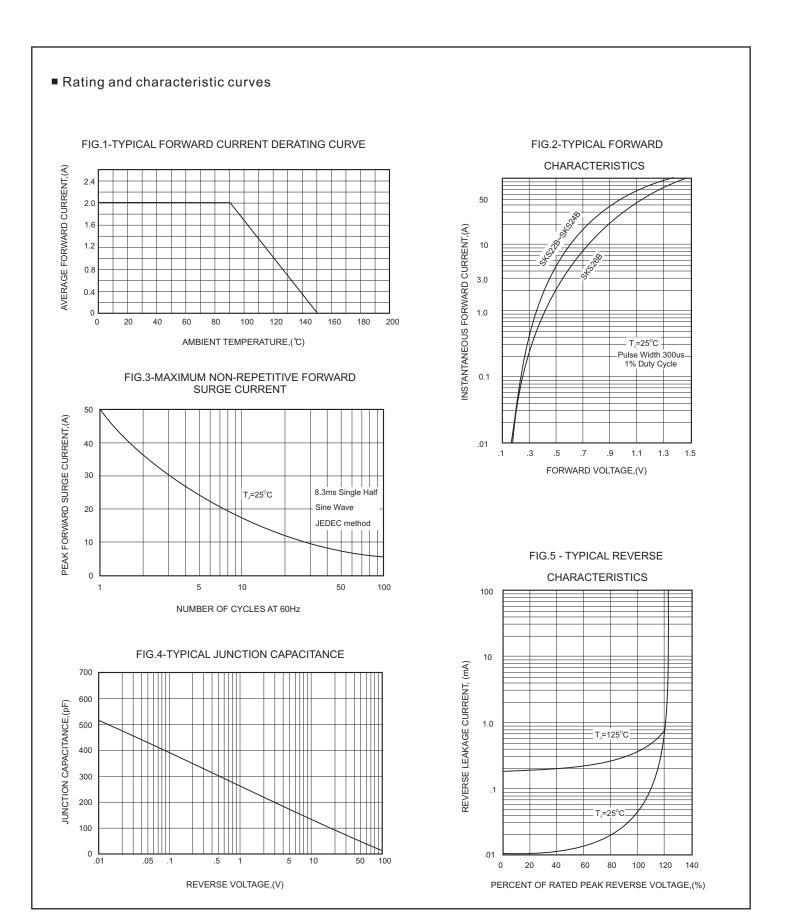
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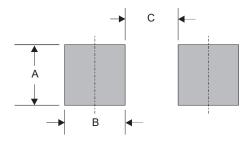
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■ SMB foot print



А	В	С	
0.091 (2.30)	0.098 (2.50)	0.071 (1.80)	

Dimensions in inches and (millimeters)

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