citc

B0520W THRU B05100W

0.5A 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.B0520WG.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, SOD-123
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Weight : 0.0004 ounce, 0.010 gram

■ Outline SOD-123

Dimensions in inches and (millimeters)

Maximum ratings and electrical characteristics

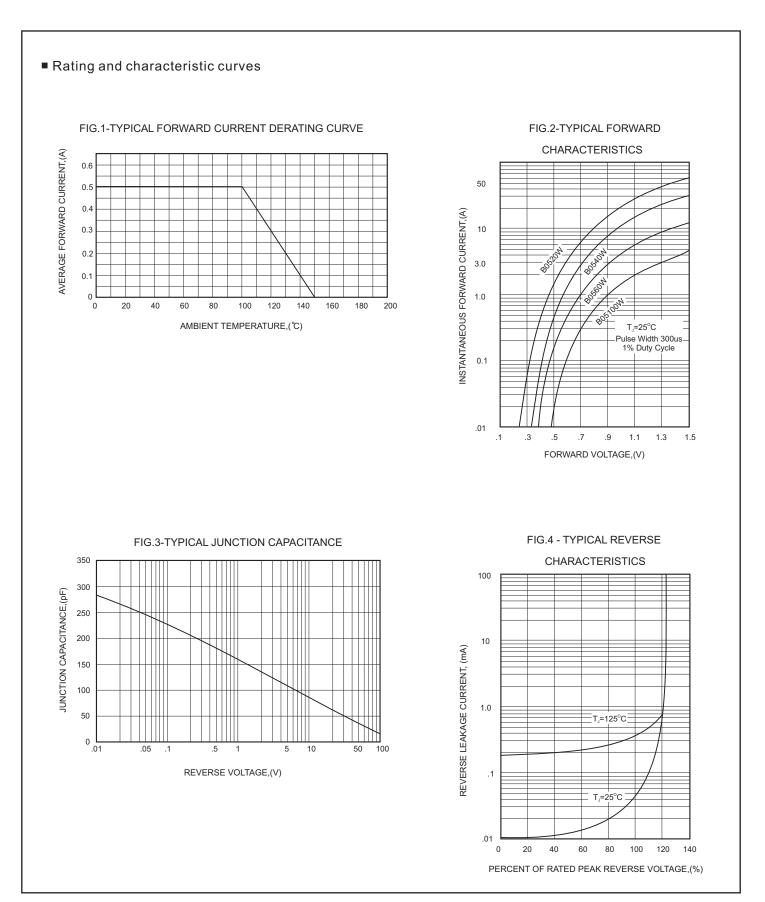
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter			Conditions			Symbol	MIN.	TYP.	MAX.	UNIT	
Forward rectified current			See Fig.1			I _o			0.5	A	
Forward surge current			8.3ms single half sine-wave superimposed on rate load (JEDEC method)			I _{fsm}			5.5	А	
Reverse current			$V_{R} = V_{RRM} T_{A} = 25^{\circ}C$			- I _R			0.1		
			$V_{R} = V_{RRM} T_{A} = 100^{\circ}C$						20	mA	
Diode junction capacitance			f=1MHz and applied 4V DC reverse voltage			C		120		pF	
Thermal resistance			Junction to ambient			R _{eja}		88		°C/W	
Storage temperature						T _{stg}	-55		+175	°C	
Symbol	Marking code	Max. repetitive pea reverse volta V _{RRM} (V)		Max. DC blocking voltage V _R (V)		forward 0.5A, T _A = V _F (V)	25°C	Oper	Operating temperature T _J (°C)		
B0520W	SD, B0	20	14	20		0.43					
B0540W	SF, SL	40	28	40		0.51					
		60	42	60		0.60			-55 ~ +150		
B0560W	SG	60	42	00							



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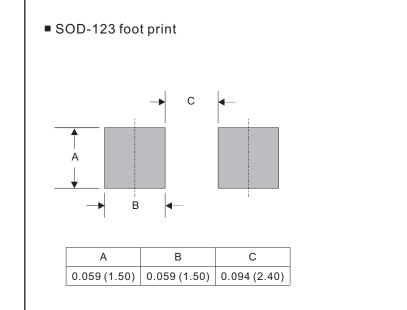
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Dimensions in inches and (millimeters)

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