citc

B0520LW THRU B0540LW

0.5A Surface Mount Schottky Barrier Rectifiers

Features Outline • Low profile surface mounted application in order to SOD-123 optimize board space. • Low power loss, high efficiency. 20 • High current capability, low forward voltage drop. Ξ • Ultra high-speed switching. 790 **359** 0.110 (2.80 • Silicon epitaxial planar chip, metal silicon junction. 0.102 (2.60) • Suffix "G" indicates Halogen-free part, ex.B0520LWG. · Lead-free parts meet environmental standards of Marking code MIL-STD-19500/228 ■ 0.049 (1.25) 0.041 (1.05) 80 Mechanical data • Epoxy:UL94-V0 rated flame retardant Case : Molded plastic, SOD-123 0.152 (3.85 • Terminals : Solder plated, solderable per 0.140 (3.55 MIL-STD-750, Method 2026 · Polarity : Indicated by cathode band Dimensions in inches and (millimeters) • Weight : 0.0004 ounce, 0.010 gram Maximum ratings and electrical characteristics Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

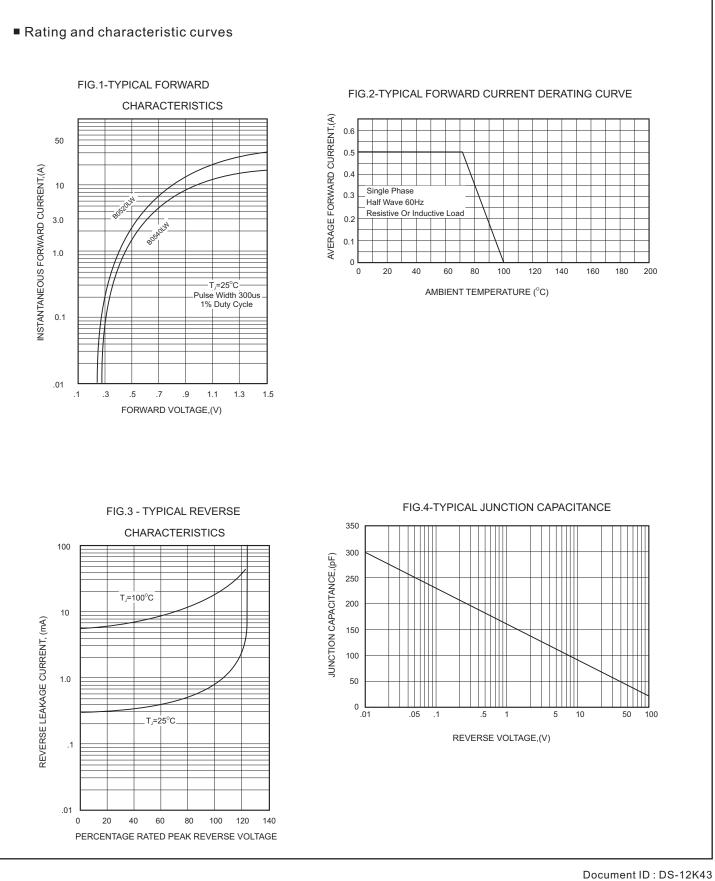
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Forward rectif	Parameter			Conditions			MIN.	TYP.	MAX.	UNIT	
Forward rectified current						I _o			0.5	А	
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			1.0	mA	
			$V_{R} = V_{RRM} T_{A} = 100^{\circ}C$						20		
Diode junction capacitance			f=1MHz and applied 4V DC reverse voltage			C		130		pF	
Thermal resistance			Junction to ambient			R _{eja}		42		°C/W	
Storage temperature					Т _{sтg} -55				+150	°C	
Symbol	Marking code	Max. repetitive peak reverse voltage V _{RRM} (V)	e Max. RMS voltage V _{RMS} (V)	Max. DC blocking voltage V _R (V)	Max @	. forward 0.5A, T _A = V _F (V)	voltage 25°C	Oper	Operating temperature T _J (°C)		
	L2	20	14	20		0.385			-55 ~ +100		
B0520LW		=•							/		



B0520LW THRU B0540LW

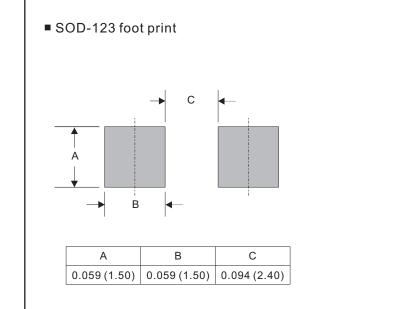
0.5A Surface Mount Schottky Barrier Rectifiers





B0520LW THRU B0540LW

0.5A Surface Mount Schottky Barrier Rectifiers



Dimensions in inches and (millimeters)

- CITC reserves the right to make changes to this document and its products and specifications at any time without notice.
- Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
- CITC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does CITC assume any liability for application assistance or customer product design.
- CITC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.
- No license is granted by implication or otherwise under any intellectual property rights of CITC.
- CITC products are not authorized for use as critical components in life support devices or systems without express written approval of CITC.

 http://www.citcorp.com.tw/
 Tel:886-3-5600628
 Fax:886-3-5600636

 Add:Rm. 3, 2F., No.32, Taiyuan St., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)