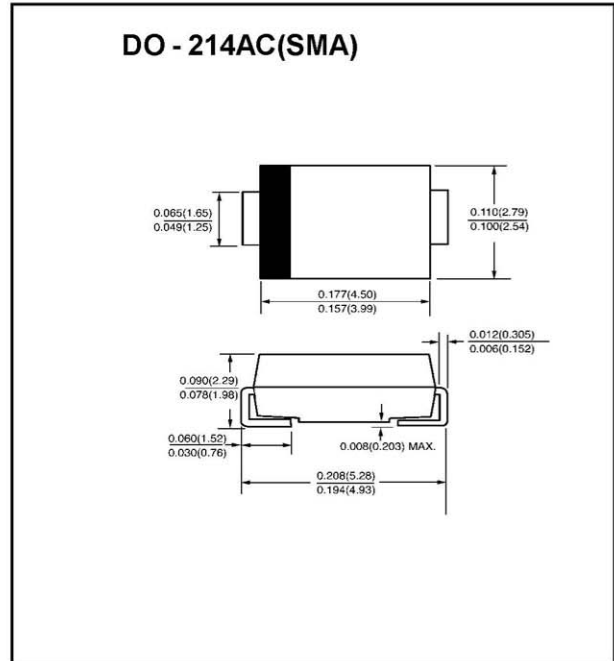


## ●FEATURES

- ◇ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◇ For surface mounted applications
- ◇ Low profile package
- ◇ Built-in strain relief
- ◇ Metal silicon junction, majority carrier conduction
- ◇ High surge capability
- ◇ Low power loss,high efficiency
- ◇ For use in low voltage high frequency inverters,free wheeling and polarity protection applications
- ◇ Guardring for overvoltage protection
- ◇ High temperature soldering guaranteed:250°C/10 seconds at terminals

## ●MECHANICAL DATA

- ◇ Case:JEDEC DO-214AC,molded plastic over passivated chip
- ◇ Terminals:Solder plated, solderable per MIL-STD-750, Method 2026
- ◇ Polarity: Color band denotes cathode end
- ◇ Weight: 0.002 ounces, 0.064 gram



## ●MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		B120	B130	B140	B150	B160	UNITS
Device marking code		B120	B130	B140	B150	B160	
Maximum recurrent peak reverse voltage	$V_{RRM}$	20	30	40	50	60	V
Maximum RMS voltage	$V_{RWS}$	14	21	28	35	42	V
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	V
Maximum average forward rectified current at $T_j$ (SEE FIG.1)	$I_{(AV)}$	1.0					A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load(JEDEC Method)	$I_{FSM}$	30.0					A
Maximum instantaneous forward voltage at 1.0A(NOTE.1)	$V_F$	0.5			0.7		V
Maximum DC reverse current (NOTE.1) @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=100^\circ\text{C}$	$I_R$	0.5			10.0		mA
Typical thermal resistance (NOTE. 2)	$R_{\theta JA}$	88.0					$^\circ\text{C/W}$
	$R_{\theta JL}$	20.0					
Storage temperature range Operating junction and storage temperature range	$T_j$	-55 --- +125					$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-55 --- +150					$^\circ\text{C}$

NOTE: 1. Pulse test:300 $\mu$ S pulse width,1%duty cycle  
2. P. C. B. mounted with 0.2"X0.2"(5.0X5.0mm<sup>2</sup>)copper pad areas

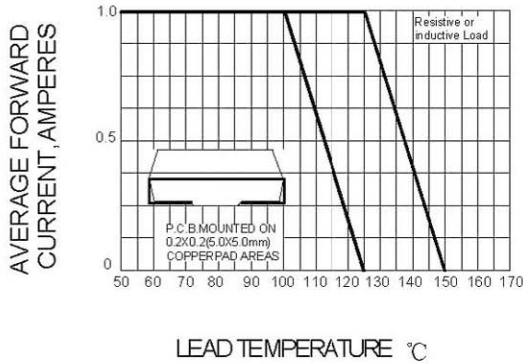
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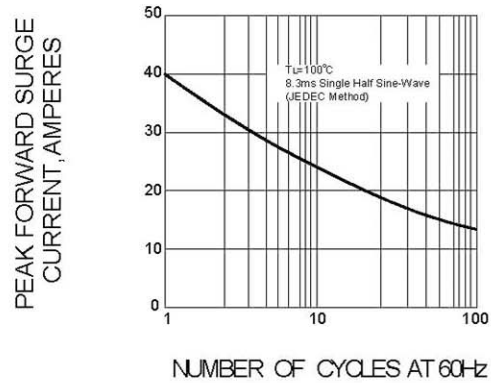
CONSCIOUS PRODUCTS BEGIN WITH CONSCIOUS PEOPLE



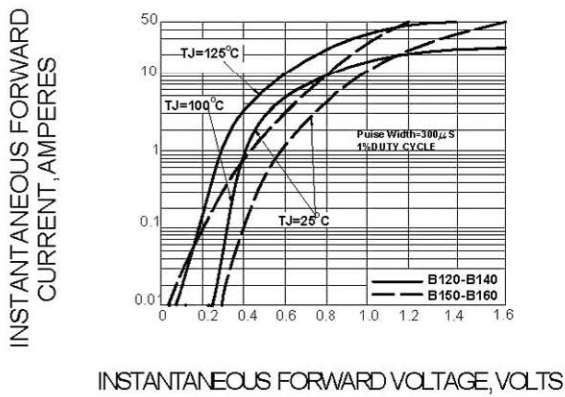
**FIG.1 – FORWARD DERATING CURVE**



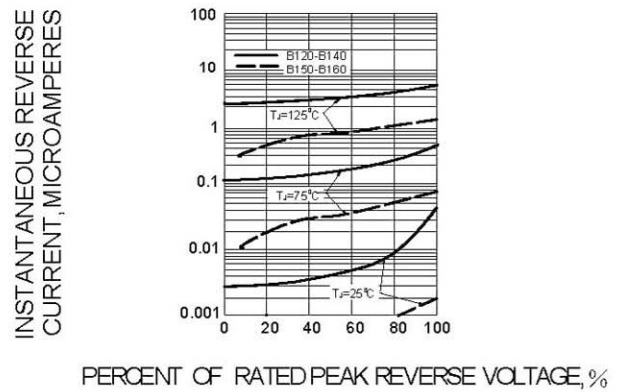
**FIG.2- PEAK FORWARD SURGE CURRENT**



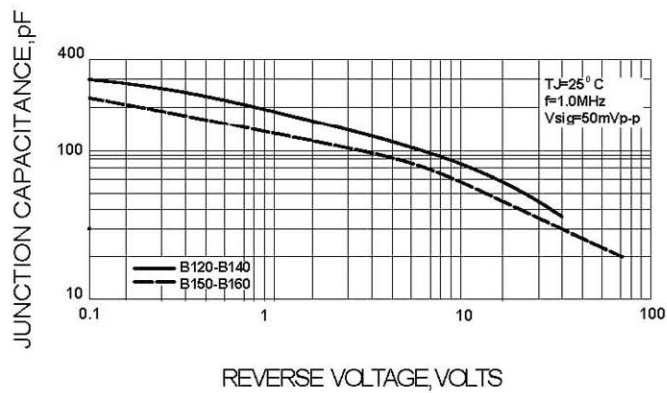
**FIG.3 – TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 – TYPICAL REVERSE CHARACTERISTICS**



**FIG.5-TYPICAL JUNCTION CAPACITANCE**



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