

ULTRA FAST SMD RECTIFIERS

VOLTAGE RANGE: 200 -- 600V

CURRENT: 1.5 A

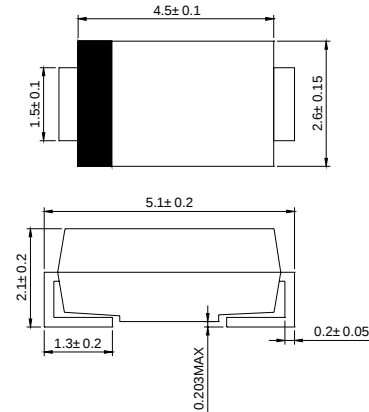
FEATURES

- For surface mounted applications
- Glass passivated junction
- Low forward voltage drop
- High current capability
- Easily cleaned with Alcohol, Isopropanol and similar solvents
- The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- Case: JEDEC SMA, molded plastic
- Terminals: Solder plated, solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode end
- Weight: 0.002 ounces, 0.064 grams
- Mounting position: Any

SMA



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 50 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		BYG20D	BYG20G	BYG20J	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	200	400	600	V
Maximum RMS voltage	V_{RMS}	140	280	420	V
Maximum DC blocking voltage	V_{DC}	200	400	600	V
Average forward rectified current	$I_{F(AV)}$	1.5			A
Peak forward surge current 10 ms single half-sine-wave superimposed on rated load	I_{FSM}	30			A
Maximum instantaneous forward voltage @ 1.0 A @ 1.5 A	V_F	1.3 1.4			V
Maximum reverse current @ $T_A=25$ at rated DC blocking voltage @ $T_A=100$	I_R	1.0 10			μA
Reverse recovery time (Note1)	t_{rr}	75			ns
Typical thermal resistance (Note2)	R_{thJL}	25			K/W
Typical thermal resistance (Note3)	R_{thJA}	125			K/W
Operating temperature range	T_j	- 55 -- +150			
Storage temperature range	T_{STG}	- 55 -- +150			

NOTE: 1. Reverse recovery test conditions: $I_F=0.5A$, $I_R=1.0A$, $t_{rr}=0.25A$.

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2. Thermal resistance from junction to lead.

3. Thermal resistance from junction to ambient, mounted on epoxy-glass hard tissue, $50mm^2$ 35 μm Cu.

FIG.1 – FORWARD DERATING CURVE

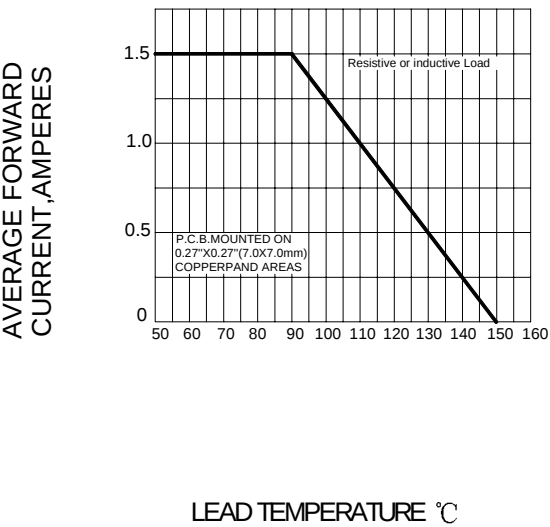


FIG.2-PEAK FORWARD SURGE CURRENT

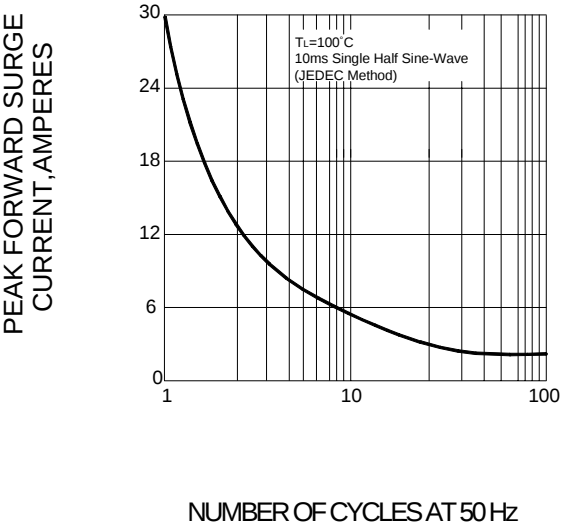


FIG.3 –TYPICAL FORWARD CHARACTERISTIC

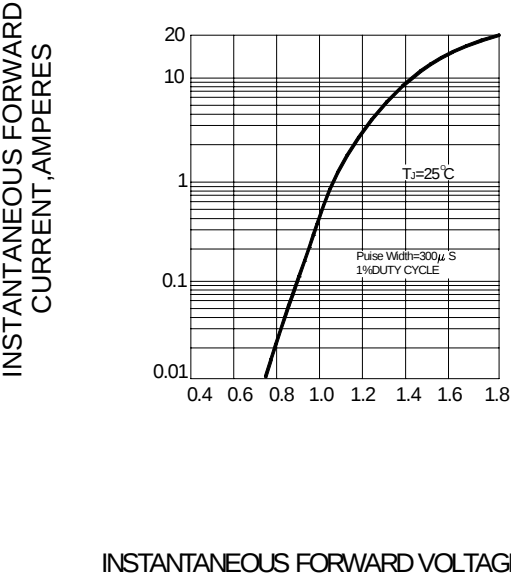


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

