



VOLTAGE RANGE: 200 -- 600V

CURRENT: 1.5 A

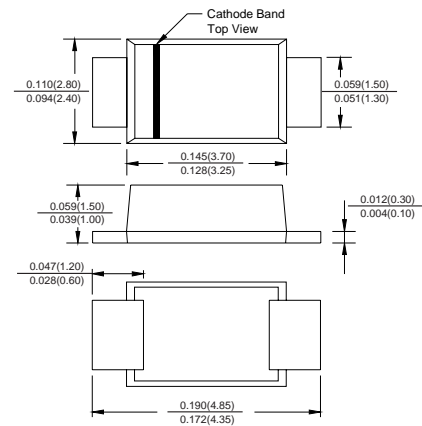
Features

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

Mechanical Data

- ✧ Case: JEDEC SMA, molded plastic
- ✧ Polarity: Color band denotes cathode end
- ✧ Weight: 0.002 ounces, 0.064 grams
- ✧ Mounting position: Any

SMAF



Dimensions in inches and (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	BYG20K	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	200	400	600	800	V
Maximum RMS voltage	V_{RMS}	140	280	420	560	V
Maximum DC blocking voltage	V_{DC}	200	400	600	800	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: $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$.

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.

Ratings AND Characteristic Curves

FIG.1 – FORWARD DERATING CURVE

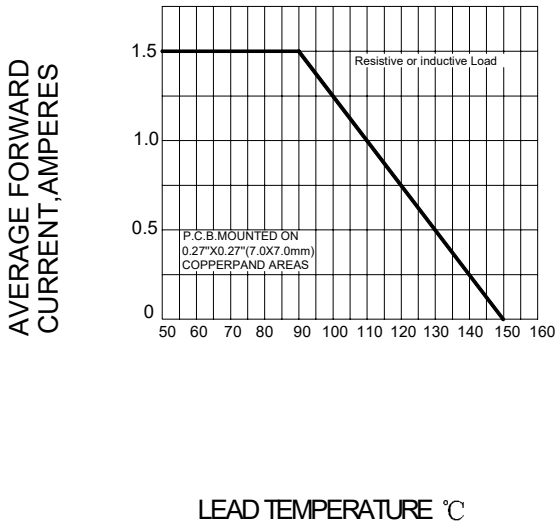


FIG.2-PEAK FORWARD SURGE CURRENT

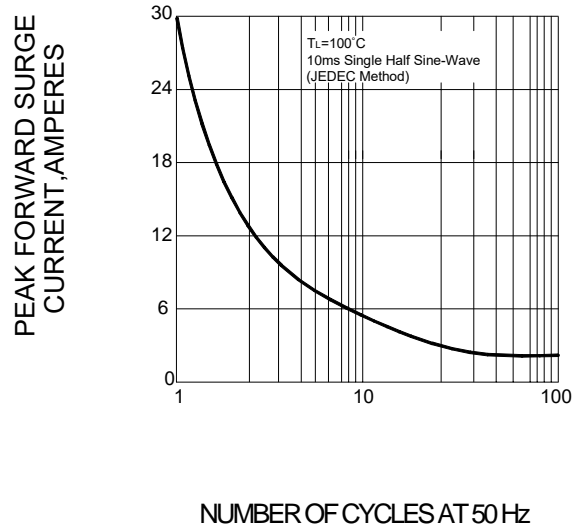


FIG.3 –TYPICAL FORWARD CHARACTERISTIC

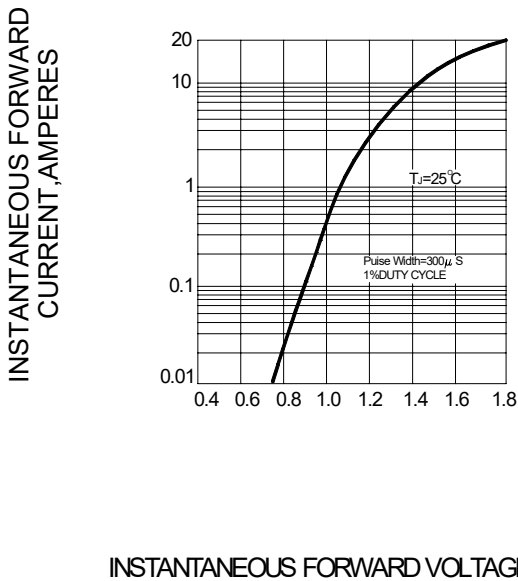
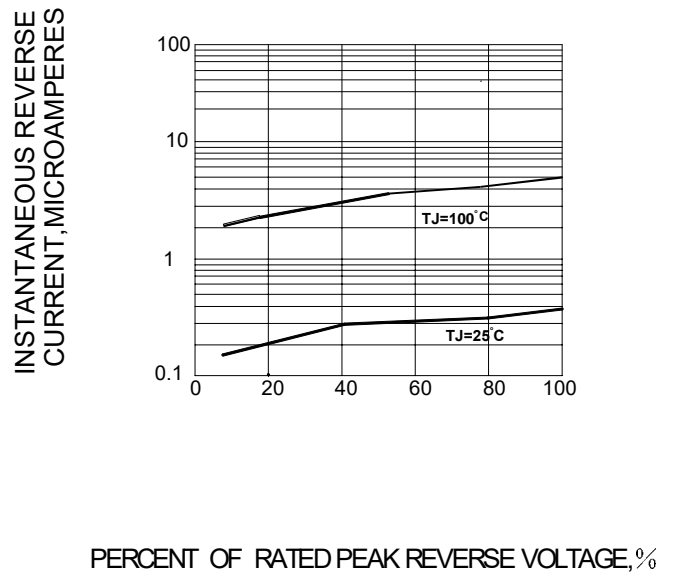


FIG.4 – TYPICAL REVERSE CHARACTERISTICS



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMAF	3000/REEL	80000	36X30.6X31	12.00	11.00