



**REVERSE VOLTAGE: 30 - 200 V**  
**FORWARD CURRENT: 2.0 A**

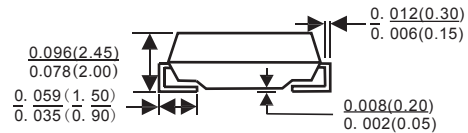
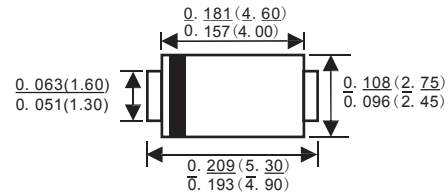
### Features

- ✧ Schottky barrier rectifier
- ✧ Guardring protection
- ✧ Low forward voltage
- ✧ Reverse energy tested
- ✧ High current capability
- ✧ Extremely low thermal resistance

### Mechanical Data

- ✧ Case: SMA molded plastic body
- ✧ Polarity: Color band denotes cathode end
- ✧ Mounting position: ANY
- ✧ Weight: 0.002 ounces, 0.064 gram

### SMA/DO-214AC



Dimensions in inches and(millimeters)

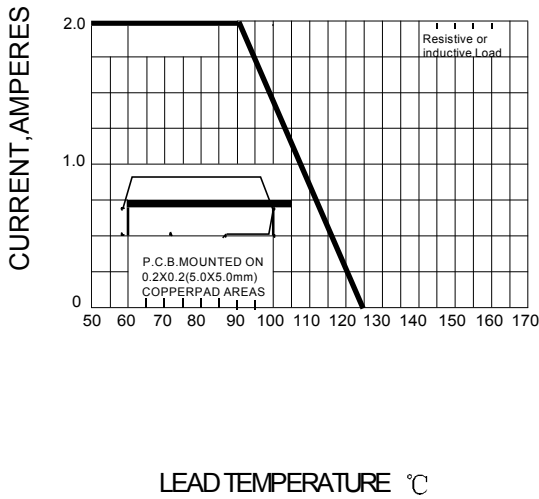
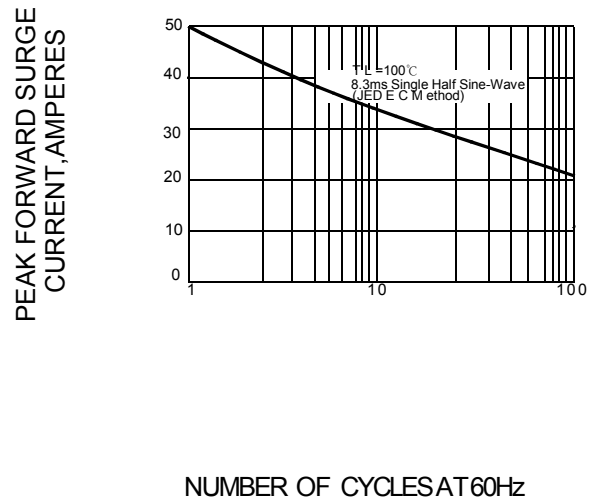
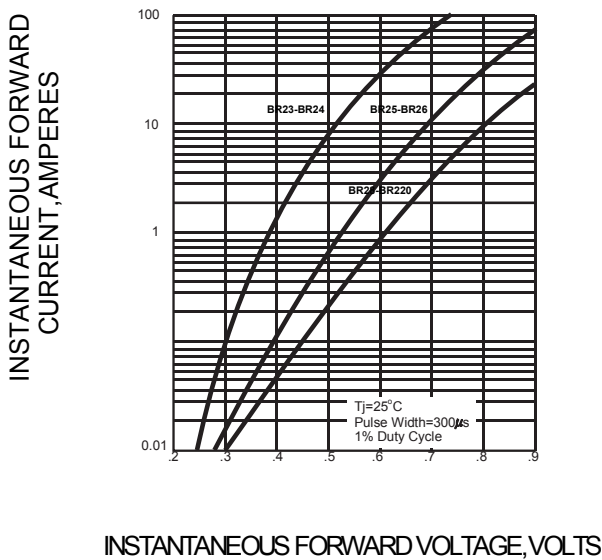
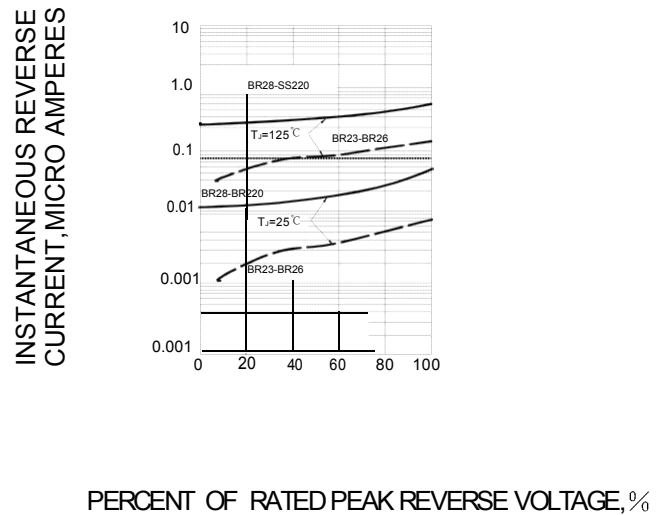
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

		BR23	BR24	BR25	BR26	BR28	BR29	BR210	BR215	BR220	UNITS	
Maximum repetitive peak reverse voltage	$V_{RRM}$	30	40	50	60	80	90	100	150	200	V	
Maximum RMS voltage	$V_{RWS}$	21	28	35	42	56	63	70	105	140	V	
Maximum DC blocking voltage	$V_{DC}$	30	40	50	60	80	90	100	150	200	V	
Maximum average forward rectified current at $T_L=90^\circ\text{C}$	$I_{F(AV)}$	2.0									A	
Peak forward surge current 8.3ms single half-sine-wave	$I_{FSM}$	50									A	
Maximum instantaneous forward voltage at $I_{FM}=2.0\text{A}$ (NOTE1)	$V_F$	0.7	0.75				0.80				V	
Maximum DC reverse current $T_J=25^\circ\text{C}$ at rated DC blocking voltage $T_J=125^\circ\text{C}$	$I_R$						0.05					m A
Maximum thermal resistance	$R_{\theta JL}$						28					$^\circ\text{C/W}$
Operating temperature range	$T_J$						-55 ---- +150				$^\circ\text{C}$	
Storage temperature range	$T_{STG}$						-55 ---- +175				$^\circ\text{C}$	

NOTE: 1.Pulse test: Pulse width 300us,duty cycle 1 %

## Ratings AND Characteristic Curves

**FIG.1 – FORWARD DERATING CURVE**

**FIG.2– PEAK FORWARD SURGE CURRENT**

**FIG.3 – TYPICAL FORWARD CHARACTERISTICS**

**FIG.4 – TYPICAL REVERSE CHARACTERISTICS**


PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMA	5000/REEL	80000	36X30.6X31	12.00	11.00

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