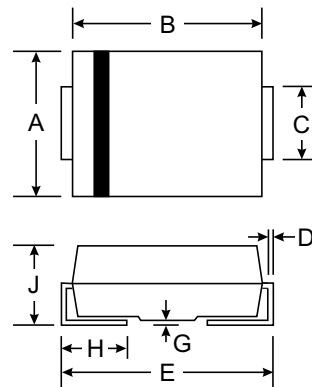
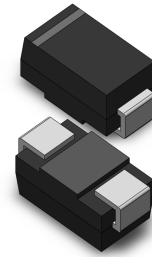


**VOLTAGE RANGE: 30 - 40V**  
**CURRENT: 2.0 A**

### Features

- Low power loss, high efficiency
- Low profile surface mount package
- Built-in strain relief
- Guardring for overvoltage protection
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0



SMA(DO-214AC)		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

### Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)



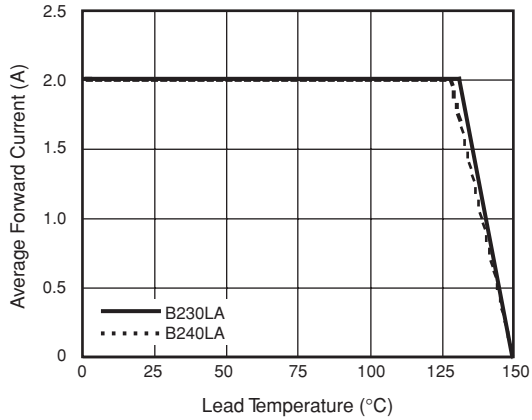
### Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

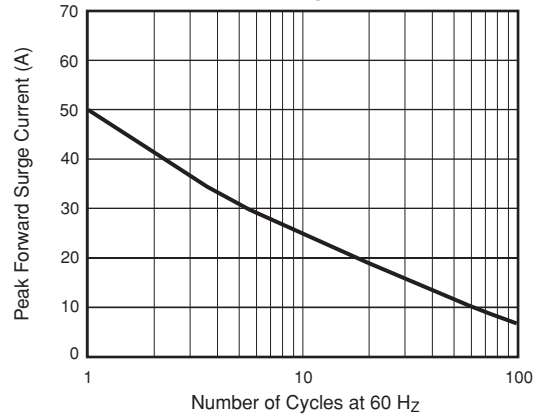
Characteristic	Symbol	B230LA	B240LA	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	30	40	V
Maximum RMS voltage	$V_{RMS}$	21	28	V
Maximum DC blocking voltage	$V_{DC}$	30	40	V
Maximum average forward rectified current at $T_L$ (See Fig. 1)	$I_{F(AV)}$	2.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50		A
Typical thermal resistance <sup>(2)</sup>	$R_{\theta JA}$ $R_{\theta JL}$	110 28		$^\circ\text{C/W}$
Voltage rate of change (rated $V_R$ )	$dv/dt$	10,000		$\text{V}/\mu\text{s}$
Operating junction temperature range	$T_J$	-65 to + 150		$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-65 to + 150		$^\circ\text{C}$
Maximum instantaneous forward voltage at 2.0A <sup>(1)</sup>	$T_J=25^\circ\text{C}$ $V_F$	0.50	0.55	V
Maximum DC reverse current at rated DC blocking voltage <sup>(1)</sup>	$T_J=25^\circ\text{C}$ $I_R$	0.5	0.5	mA

## Ratings and Characteristic Curves ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

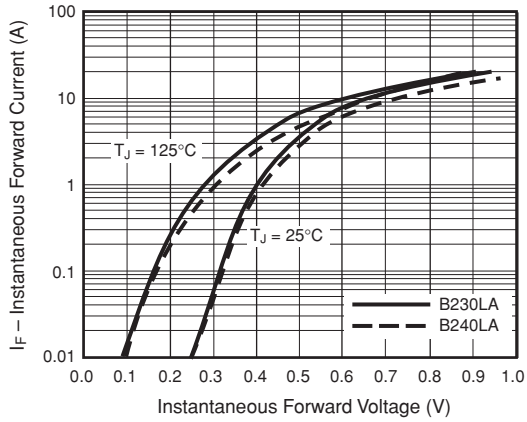
**Fig. 1 – Forward Current Derating Curve**



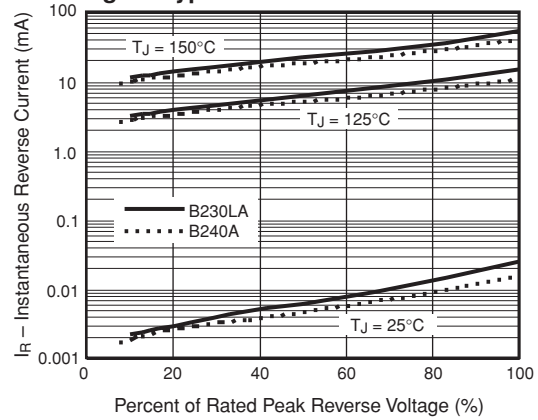
**Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current**



**Fig. 3 - Typical Instantaneous Forward Characteristics**



**Fig. 4 - Typical Reverse Characteristics**



**Fig. 5 - Typical Junction Capacitance**

