

## UNIDIRECTIONAL THYRISTOR SURGE SUPPRESSOR

### APPLICATIONS

- ✓ SLIC Line Card
- ✓ DBX Branch Exchange Switches
- ✓ FCC Part 68 Customer Premise Equipment
- ✓ Line Interface Modem
- ✓ ISDN Architecture Interface

### IEC COMPATIBILITY (EN61000-4)

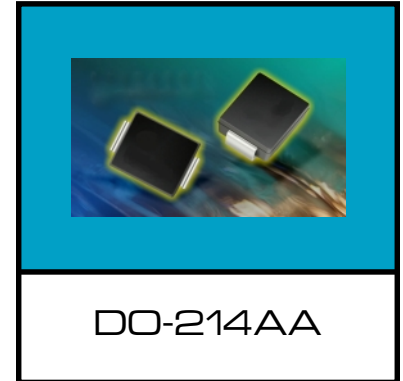
- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns
- ✓ 61000-4-5 (Surge): 8/20 $\mu$ s - 95A, L4(Line-Gnd), 48A, L4(Line-Line) & 83A, L2(Power)

### FEATURES

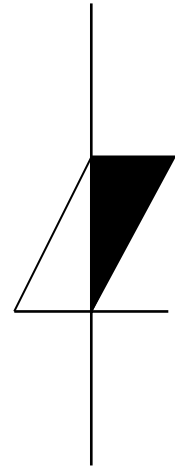
- ✓ *Complies with: FCC Part 68, UL 1459, Bellcore 1089, ITU-K.20 & K.21*
- ✓ Peak Off-State Voltage: 58 Volts
- ✓ Surge Current Capability(See Table 1)
- ✓ ESD Protection > 40 kilovolts

### MECHANICAL CHARACTERISTICS

- ✓ Molded Plastic DO-214AA Package
- ✓ Weight 2.5 grams (Approximate)
- ✓ Flammability Rating UL 94V-0
- ✓ Device Marking: Logo, Marking Code & Polarity Band or Notch on Top Surface



DEVICE SYMBOL  
(UNIDIRECTIONAL)



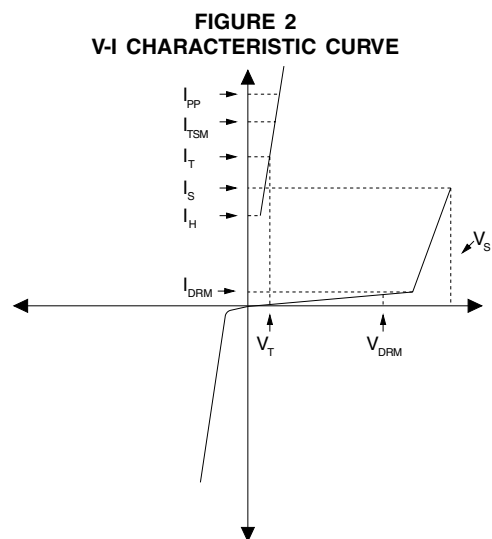
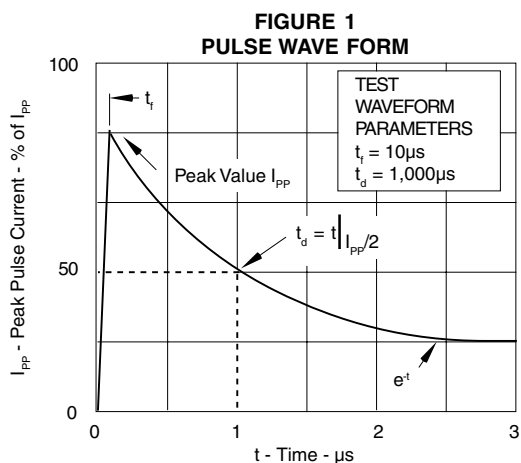
SERIES	$I_{PP}$ 2 X 10 $\mu$ s AMPS	$I_{PP}$ 10 X 1000 $\mu$ s AMPS	$I_{TSM}$ 60 Hz AMPS	di/dt AMPS/ $\mu$ s (See Note 1)	dv/dt AMPS/ $\mu$ s (See Note 1)
SA	125	40	20	500	2000

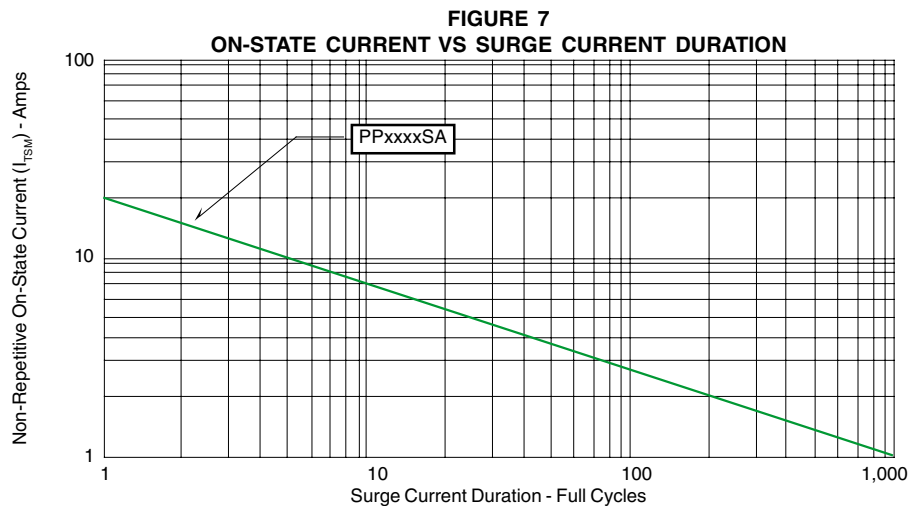
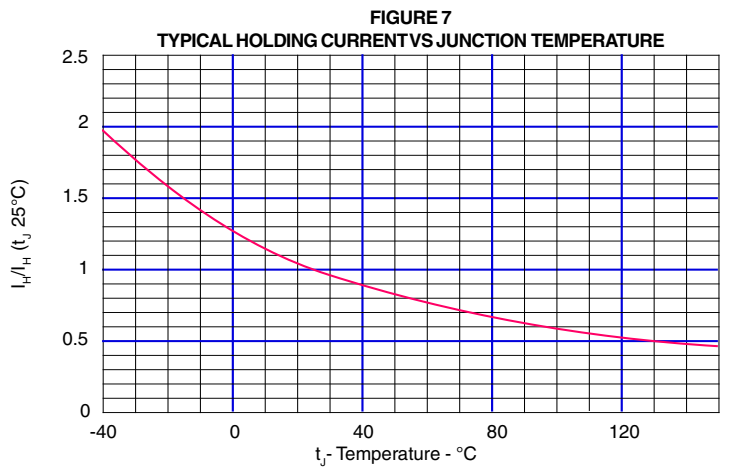
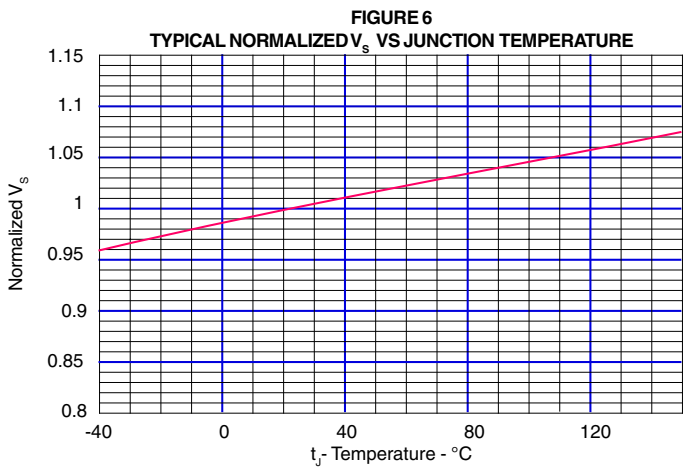
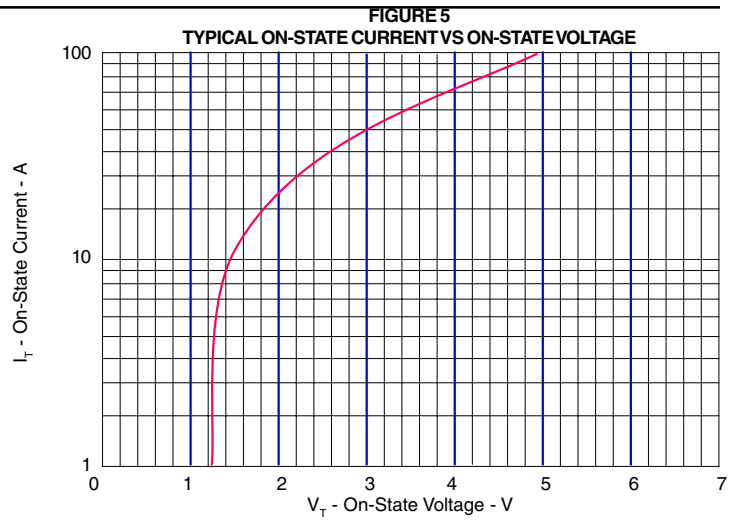
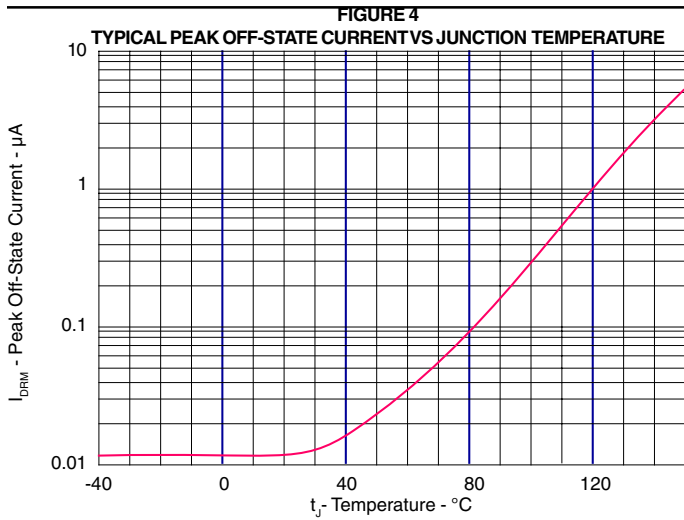
Note 1: Critical Rate of Rise for On-State Current (di/dt) and Off-State Voltage (dv/dt).

## DEVICE CHARACTERISTICS

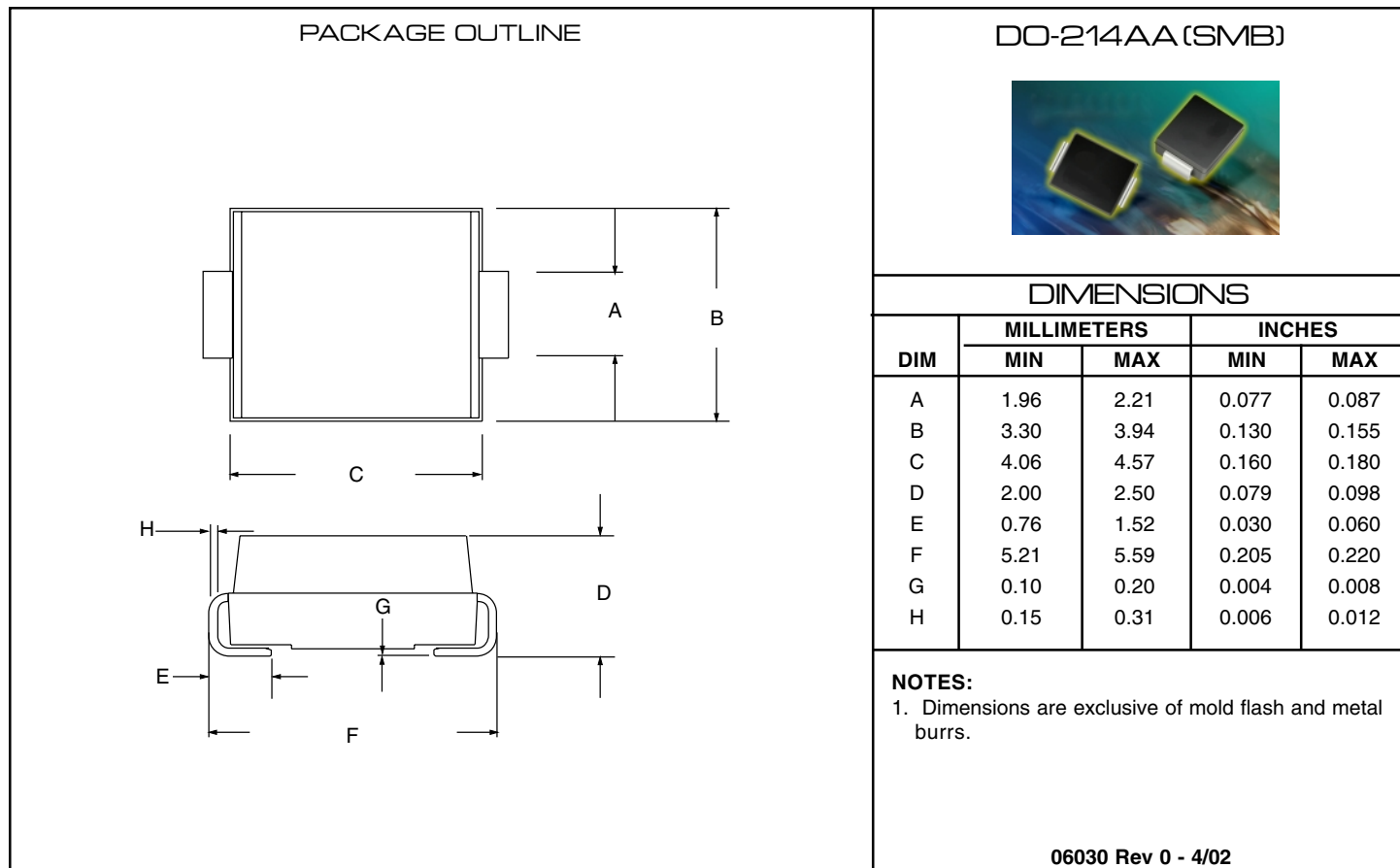
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Surge Current - 50/60 Hz	$I_{TSM}$	60	Amps
Junction Temperature	$T_J$	-40 to 150	°C
Storage Temperature	$T_{STG}$	-55 to 150	°C
Thermal Resistance(Junction)	$R_{\theta ja}$	28	°C/Watt
Thermal Resistance(Ambient)	$R_{\theta ja}$	90	°C/Watt

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified									
PART NUMBER	DEVICE MARKING CODE	REPETITIVE PEAK OFF-STATE VOLTAGE	SWITCHING VOLTAGE	MINIMUM HOLDING CURRENT (See Fig. 4)	SWITCHING CURRENT	MAXIMUM OFF-STATE CURRENT (See Fig. 3)	MAXIMUM ON-STATE VOLTAGE (See Fig. 3)	ON-STATE CURRENT	TYPICAL CAPACITANCE
		$V_{DRM}$ VOLTS	@ 100V/ $\mu$ s $V_S$ VOLTS	di/dt = 1A/ms $I_H$ mA	$I_S$ mA	@ $V_{DRM}$ $I_{DRM}$ $\mu$ A	@ $I_T$ $V_T$ VOLTS	$I_T$ AMPS	@ 50V, 1 MHz C pF
PP0641SA	JD	58	70	150	800	5	5	1.0	90





## PACKAGE OUTLINE & DIMENSIONS



### TAPE & REEL PACKAGING:

Surface mount product is taped and reeled in accordance with EIA-481, reel quantities and sizes are as follows:

7 Inch Reel - 3,000 pieces per reel; 13 Inch Reel - N/A

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