# **SCHOTTKY BARRIER RECTIFIERS**

# **FEATURES**:

- Plastic package Underwriters Laboratory
   Flammability Classification 94V-0
- Dual rectifier construction, positive centertap
- Metal silicon junction
   Majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High temperature soldering guaranteed: 250°C/10 seconds, 0.25"(6.35mm) from case

## MECHANICAL DATA

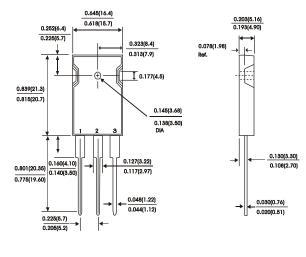
Case: JEDEC TO-3P molded plastic

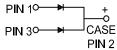
Teminals: Leads solderable per MIL-STD-750

Method 2026
Polarity: As marked
Mounting Postition: Any

Mounting Torque 10 in - ibs.max Weight: 0.20 ounce, 5.6 grams

## TO-247AD/TO-3P





Dimensions in inches and (millimeters)

# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temperature unless otherwise specified.

Single phase half wave, 60 Hz resistive or inductive load.

For capacitive load. derate current by 20%.

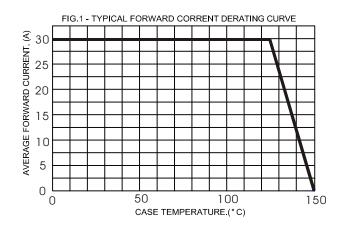
Characteristic	Symbol	SR 3020PT	SR 3030PT	SR 3035PT	SR 3040PT	SR 3045PT	SR 3050PT	SR 3060PT	Units
Maximum recurrent peak reverse voltage	$V_{RRM}$	20	30	35	40	45	50	60	Volts
Maximum RMS voltage	V <sub>RMS</sub>	14	21	25	28	32	35	42	Volts
Maximum DC blocking voltage	$V_{DC}$	20	30	35	40	45	50	60	Volts
Maximum average forward rectified current at See fig.1	lo	30							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg)	I <sub>FSM</sub>	200							Amps
Maximum instantaneous forward voltage (Per leg)(NOTE 2) IF=15A	V <sub>F</sub>	0.63 0.70						Volts	
Maximum instantaneous reverse current at rated DC blocking $Tc = 25 ^{\circ}C$ voltage (Per leg)(NOTE 2)	l ll4						5.0 100	·	mA
Typical thermal resistance (Per leg)(NOTE 1)	R <sub>th</sub> -JC	1.4						°C/W	
Operating temperature range	TJ	-65to+150							°C
Storage temperature range	T <sub>Stg</sub>	-65to+175							$^{\circ}\!\mathbb{C}$

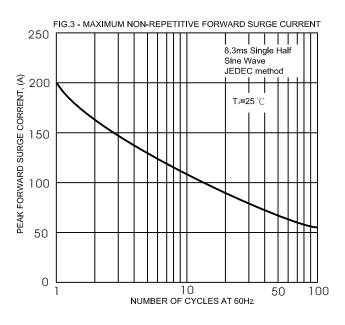
NOTES:

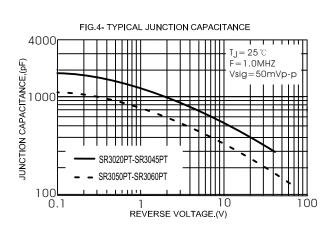
(1)Thermal resistance from junction to case

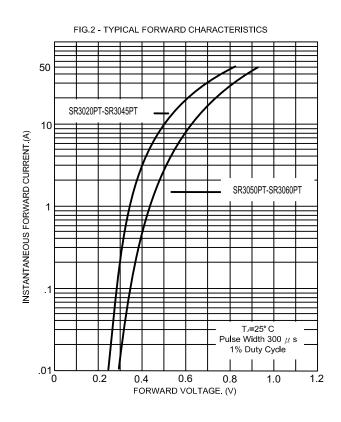
(2) Pulse test: 300 us pulse width, 1% duty cycle

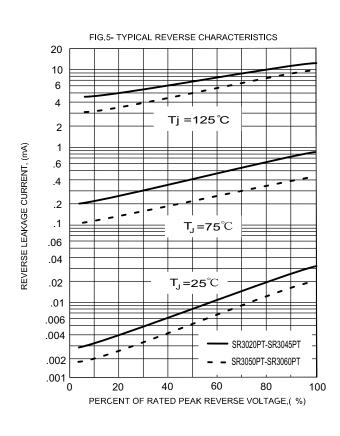
# RATINGS AND CHARACTERISTIC CURVES











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