



Features:

- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical Data:

Case	: JEDEC DO-27 molded plastic
Polarity	: Colour band denotes cathode
Weight	: 0.04ounces, 1.1grams
Mounting Position	: Any
Reverse Voltage	: 30 to 60 Volts
Forward Current	: 5 Amperes

Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

Characteristics	Symbol	SR530	SR540	SR560	Unit
Max. Recurrent Peak Reverse Voltage	V _{RRM}	30	40	60	V
Max. RMS Voltage	V _{RMS}	21	28	42	
Max. DC Blocking Voltage	V _{DC}	30	40	60	
Max. Average Forward Rectified Current 0.375" (9.5mm) Lead Lengths	I _(AV)	5			A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150			
Peak Forward Voltage at 3A DC	V _F	0.55		0.7	V
Max. DC Reverse Current at Rated DC Blocking Voltage at	I _R	1 50			mA
Typical Junction Capacitance (Note 1)	C _J	500		350	pF
Typical Thermal Resistance (Note 2)	R _{θJL}	15		10	°C/W
Operating Temperature Range	T _J	-55 to +150			°C
Storage Temperature Range	T _{STG}				

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal resistance junction to lead
3. The typical data above is for reference only

Ratings and Characteristic Curves

FIG. 1 - FORWARD CURRENT DERATING CURVE

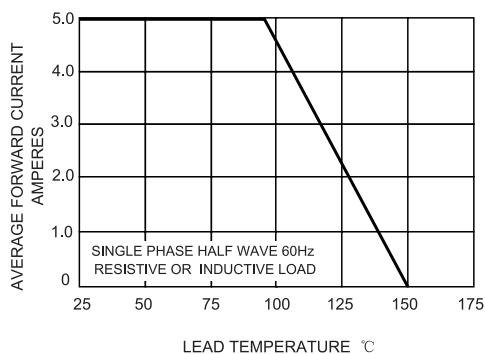


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

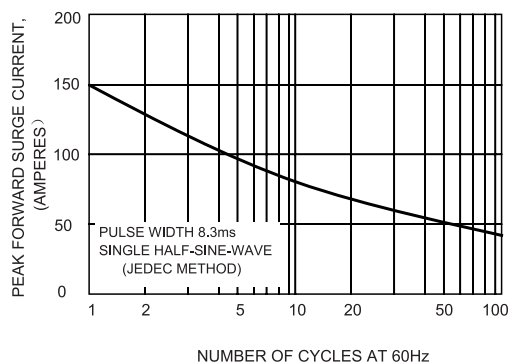


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

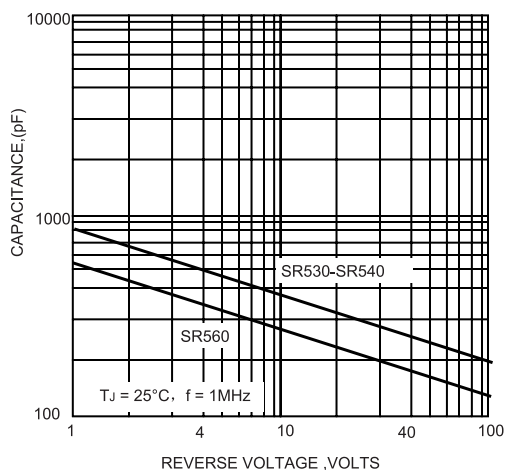


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

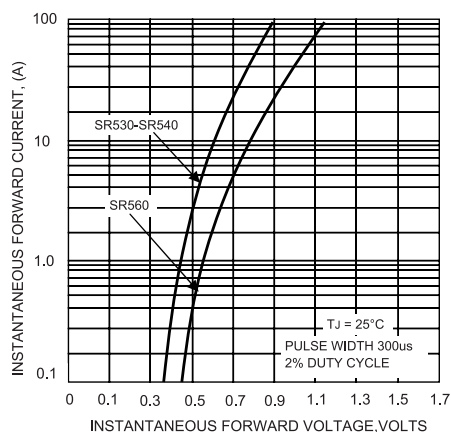
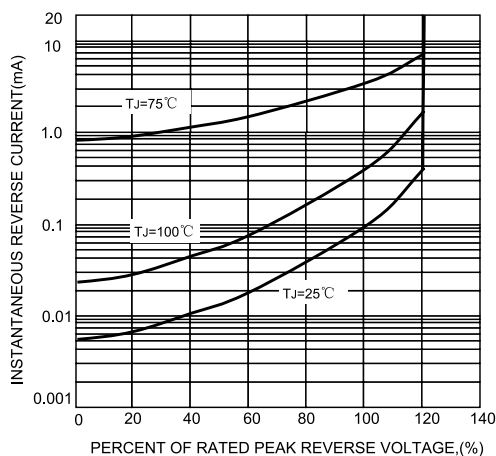
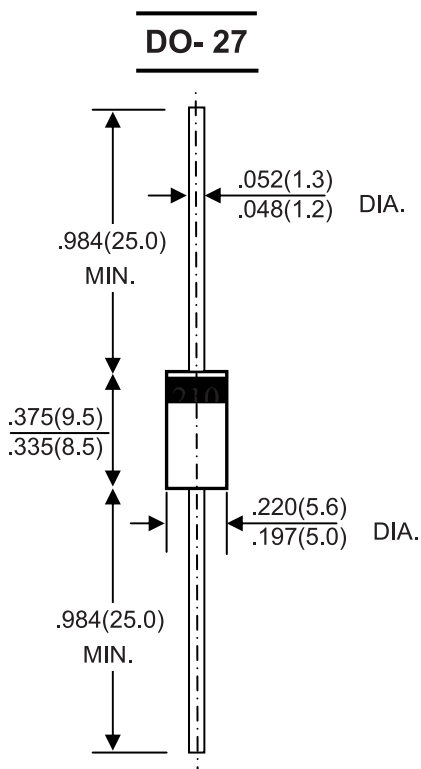


FIG. 5 - TYPICAL REVERSE



Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Schottky Barrier Rectifier, 5A 30V, DO-27	SR530
Schottky Barrier Rectifier, 5A 40V, DO-27	SR540
Schottky Barrier Rectifier, 5A 60V, DO-27	SR560

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