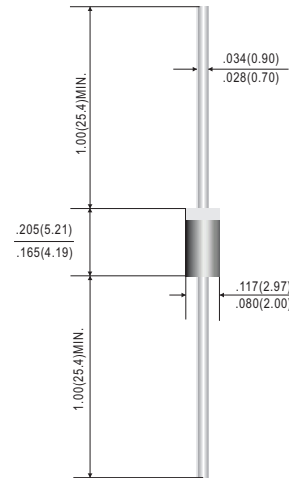


## 1.0AMP SCHOTTKY BARRIER RECTIFIERS

## DO-41 PACKAGE

### FEATURES

- \* Ideal for surface mounted applications
- \* Low leakage current
- \* Metallurgically bonded construction
- \* High reliability
- \* RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"



Dimensions in inches and (millimeters)

### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-O rate flame retardant
- \* Mounting position: Any
- \* Weight: 0.33 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

RATINGS	SYMBOL	SR120	SR130	SR140	SR150	SR160	SR180	SR1100	SR1150	SR1200	UNIT
Marking Code		SR120	SR130	SR140	SR150	SR160	SR180	SR1100	SR1150	SR1200	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current	I <sub>O</sub>	1.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	30.0									Amps
Typical Thermal Resistance	R <sub>ΘJA</sub>	70									°C/W
	R <sub>ΘJC</sub>	40									°C/W
Typical Junction Capacitance	C <sub>J</sub>	70			50		40		30		pF
Operating Temperature Range	T <sub>J</sub>	-55 to +125									°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150									°C

CHARACTERISTICS		SYMBOL	SR120	SR130	SR140	SR150	SR160	SR180	SR1100	SR1150	SR1200	UNIT	
Maximum Forward Voltage at 1.0A DC	@TA=25°C	V <sub>F</sub>	0.50			0.70		0.85		0.87		0.90	Volts
Maximum Average Reverse Current at	@TA=25°C	I <sub>R</sub>	0.5				0.2				mAmps		
Rated DC Blocking Voltage	@TA=100°C		10.0				2.0						

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

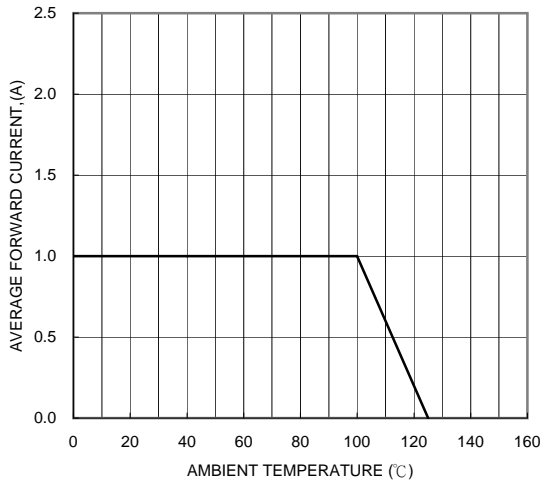


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

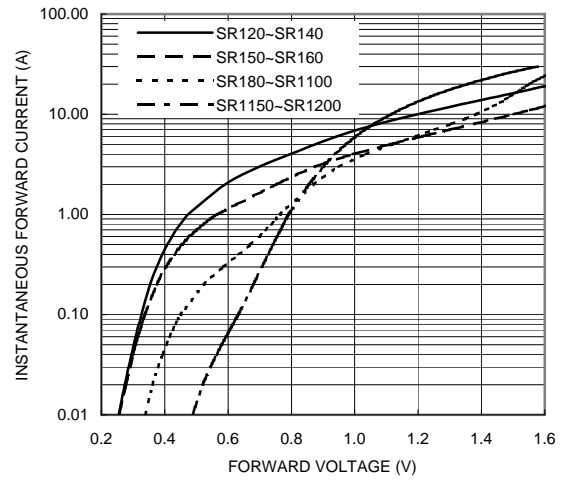


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

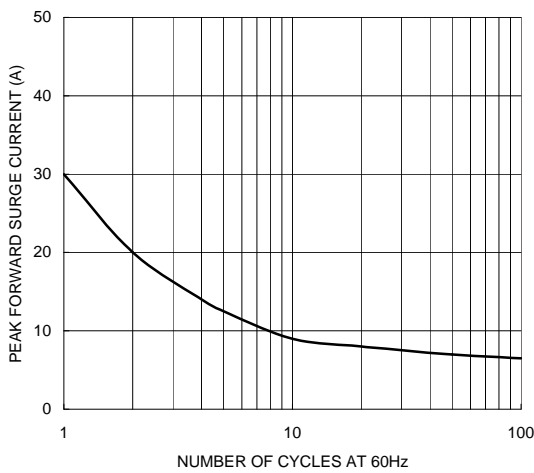


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

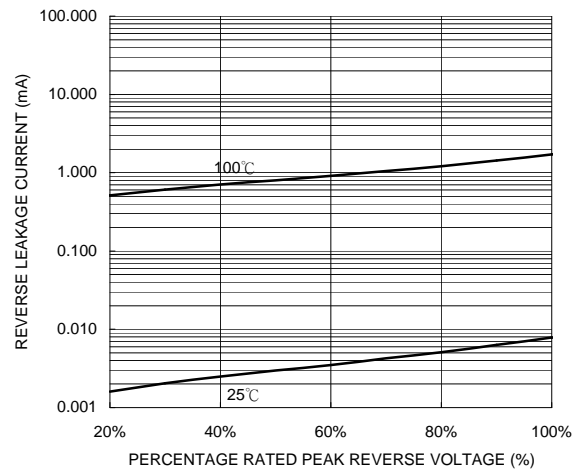


FIG. 5-TYPICAL JUNCTION CAPACITANCE

