



WEE Technology Company Limited

Schottky Barrier Rectifiers

SR120 THRU SR1200

VOLTAGE RANGE 20 to 200 Volts

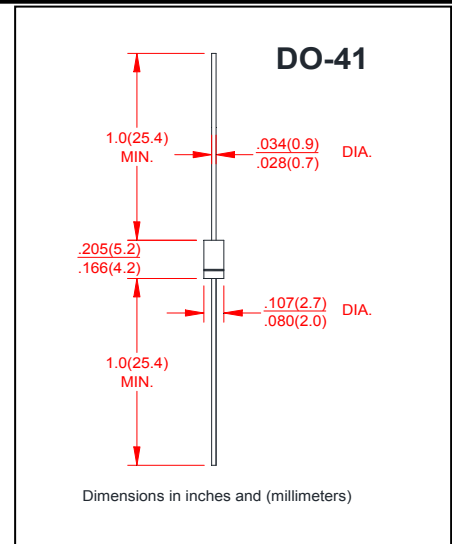
CURRENT 1.0 Ampere

FEATURES

- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering guaranteed
260°C/10 seconds, 0.375" (9.5mm) lead length at 5 lbs (2.3kg) tension

MECHANICAL DATA

- Case: Mold plastic
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Indicated by cathode band
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	SR 120	SR 130	SR 140	SR 150	SR 160	SR 180	SR 1100	SR 1150	SR 1200	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current	$I_{(AV)}$	1.0									Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30									Amps
Maximum Instantaneous Forward Voltage at 1.0A	V_F	0.55			0.70		0.85		0.90		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_A = 25^\circ C$									mA
		$T_A = 100^\circ C$									
Typical Thermal Resistance (NOTE 1)	$R_{\theta JA}$	50									°C/W
Operating Temperature Range	T_J	-55 to +125									°C
Storage Temperature Range	T_{STG}	-55 to +150									°C

Notes:

1. Thermal Resistance from Junction to Ambient at 5.0×5.0mm² copper pad areas.



WEE Technology Company Limited

Schottky Barrier Rectifiers

SR120 THRU SR1200

VOLTAGE RANGE 20 to 200 Volts
CURRENT 1.0 Ampere

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

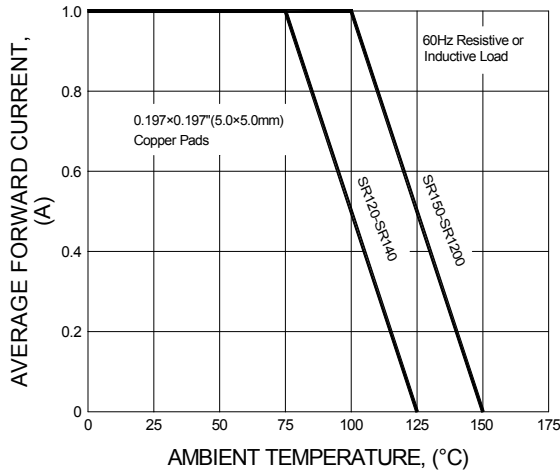


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

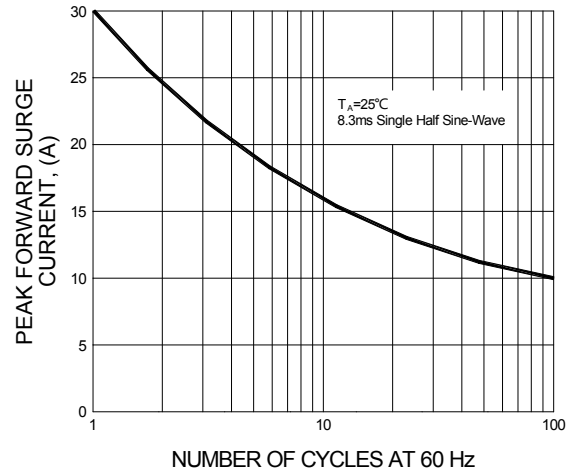


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

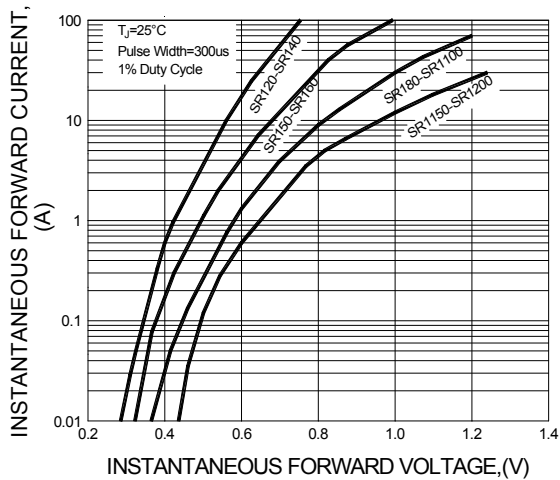
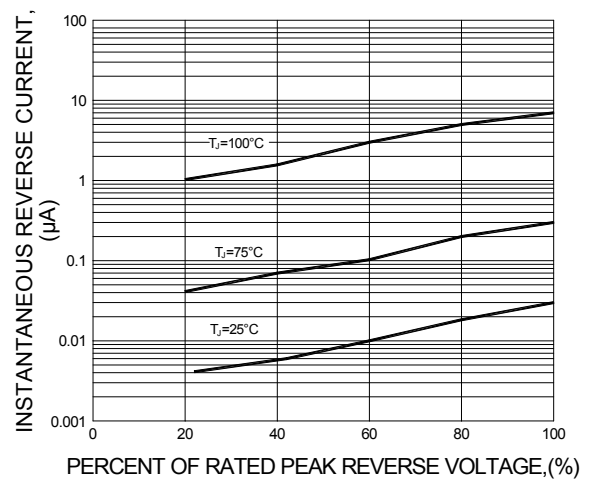


FIG.4-TYPICAL REVERSE CHARACTERISTICS



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.