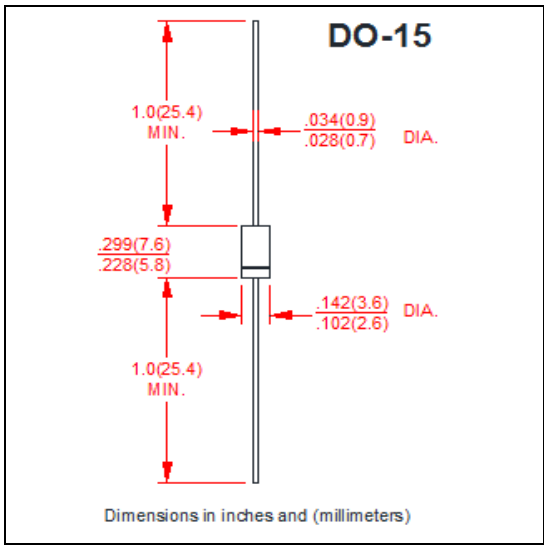
WEE Technology Company Limited

Schottky Barrier Rectifiers

SR320 THRU SR3100

VOLTAGE RANGE 20 to 100 Volts
CURRENT 3.0 Ampere



FEATURES

- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High reliability

MECHANICAL DATA

- Case: DO-27,Mold plastic
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Indicated by cathode band
- Lead:MIL-STD-202E, Method 208 guaranteed
- Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOLS	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current	$I_{(AV)}$	3.0							Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80							Amps
Maximum Instantaneous Forward Voltage at 3.0A	V_F	0.55			0.70		0.85		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage T_A = 25℃	I_R	1.0							mA
Maximum DC Reverse Current at Rated DC Blocking Voltage T_A = 100℃	I_R	20							mA
Typical Junction Capacitance (NOTE 1)	C_J	250							pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	20							℃/W
Operating Temperature Range	T_J,	-55 to +125							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

Notes:
1.Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
2.Thermal Resistance from Junction to Ambient at. 375”(9.5mm)lead length, P.C. board mounted.

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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

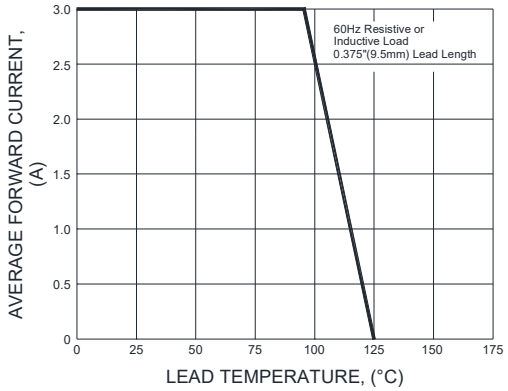


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

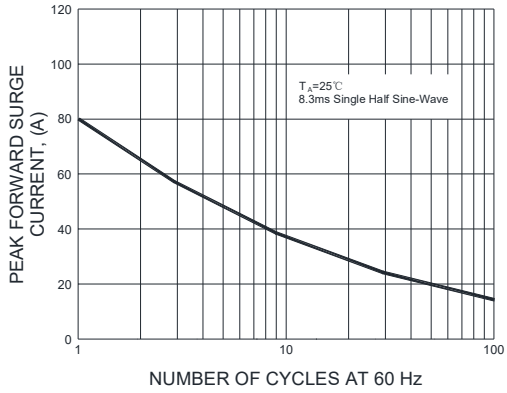


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

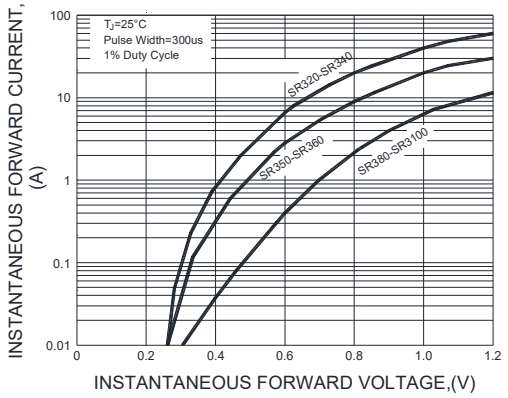


FIG.4-TYPICAL REVERSE CHARACTERISTICS

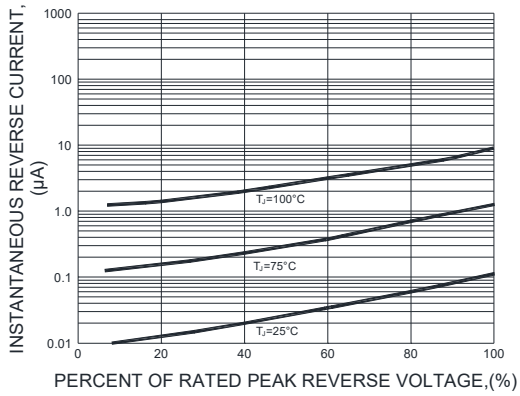
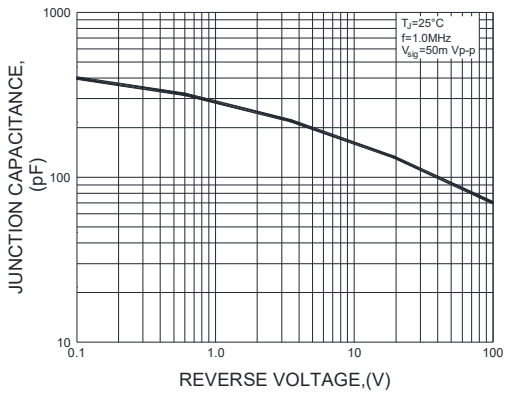


FIG.5-TYPICAL JUNCTION CAPACITANCE



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