



## 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%.

PARAMTER	SYBMOL	TSS20D 20C	TSS20D 40C	TSS20D 60C	TSS20D 80C	TSS20D 100C	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	20	40	60	80	100	V
Maximum RMS Voltage	VRMS	14	28	42	56	70	V
Maximum DC Blocking Voltage	VDC	20	40	60	80	100	V
Maximum Average Forward Rectified Current Tc=105°C	IF(AV)	20.0					A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200					A
Maximum Instantaneous Forward Voltage @ 10.0 A	VF	0.55		0.65	0.75	0.85	V
Maximum DC Reverse Current @TJ=25°C At Rated DC Blocking Voltage @TJ=100°C	IR	1.0 50					mA
Typical junction Capacitance (Note 1)	CJ	350					pF
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to +125 / -55 to +150					°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

RATING AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

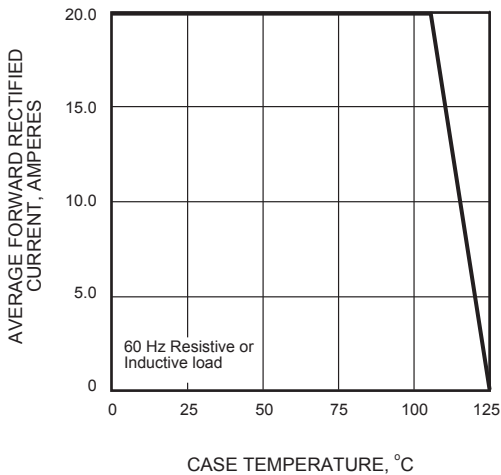


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

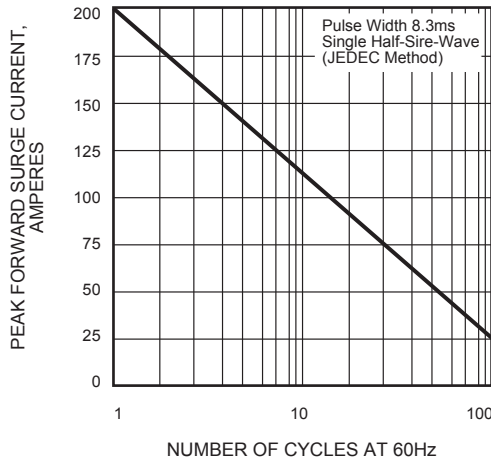


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

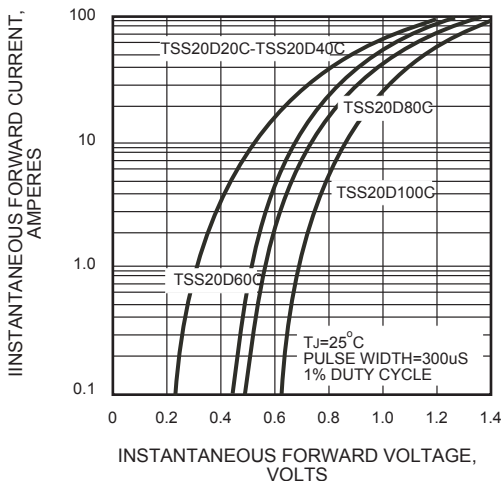


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

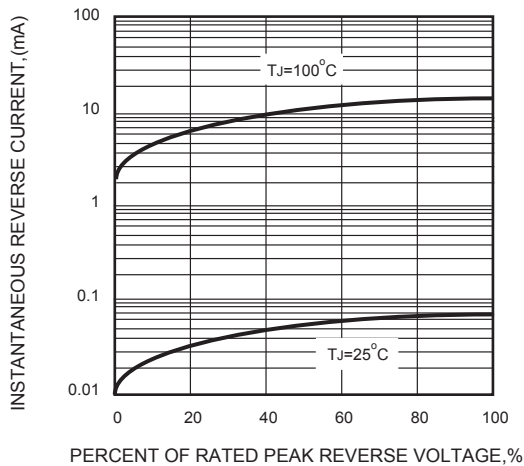


FIG.5 - TYPICAL JUNCTION CAPACITANCE

