PACELEADER INDUSTRIAL

SP2040C THRU SP20200C

20.0A SCHOTTKY BARRIER RECTIFIERS -40V- 200V

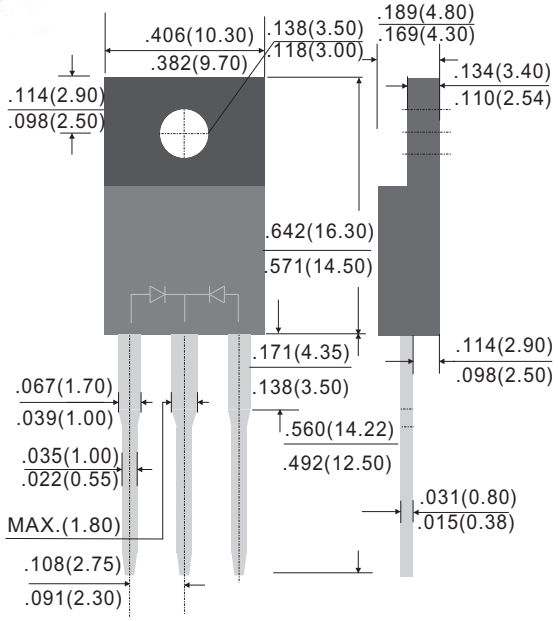
Mechanical Date

- Case:ITO-220
- Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0
- Terminals: Matte Tin Finish annealed over copper Lead frame. Solderable per MIL-STD-202
- Weight: 1.689 grams (approximate)



RoHS COMPLIANT

ITO-220



Dimensions in inches and (millimeters)

Features

- Guard Ring for over voltage Protection
- High forward surge capability
- High frequency operation
- Component in accordance to RoHS 2002/95/EC
- **Pb-Free package is available**
  RoHS product for packing code suffix ”G”
  Halogen free product for packing code suffix “H”

MAXIMUM RATINGS (TA=25°C unless otherwise noted)							
PARAMETER	**SYMBOL**	**SP2040C**	**SP2060C**	**SP20100C**	**SP20150C**	**SP20200C**	**UNIT**
Maximum repetitive peak reverse voltage	V_{RRM}	40	60	100	150	200	V
Maximum RMS voltage	V_{RMS}	28	42	70	105	140	V
Maximum DC blocking voltage	V_{DC}	40	60	100	150	200	V
Maximum average forward rectified current (Total) (Per Leg)	I_F	20 10					A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150.0					A
Maximum Instantaneous Forward Voltage IF=10A @ 25°C	V_F	0.55	0.75	0.85	0.92		V
Maximum DC Reverse Current @ Tc=25°C at Rated DC Blocking Voltage @ Tc=100°C	I_R	0.5 20		0.2 5			mA
Typical Junction Capacitance(NOTE1)	C_j	600	400		300		pF
Typical Thermal Resistance	$R_{\theta JC}$	3					°C/W
Operating Temperature Range	T_J	-55 to +125			-55 to +150		°C
Storage Temperature Range	T_{STG}	-55 to +150					°C

NOTES:1.Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

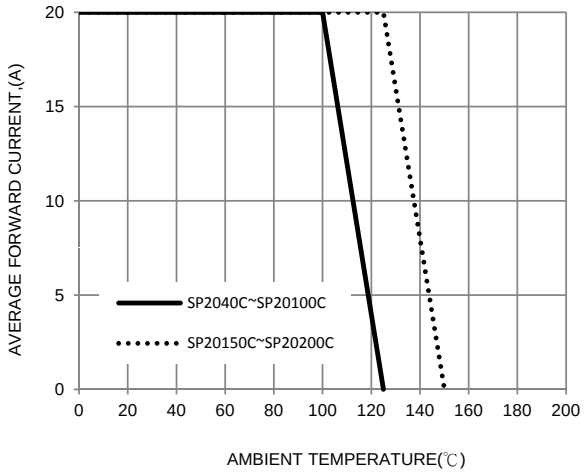


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

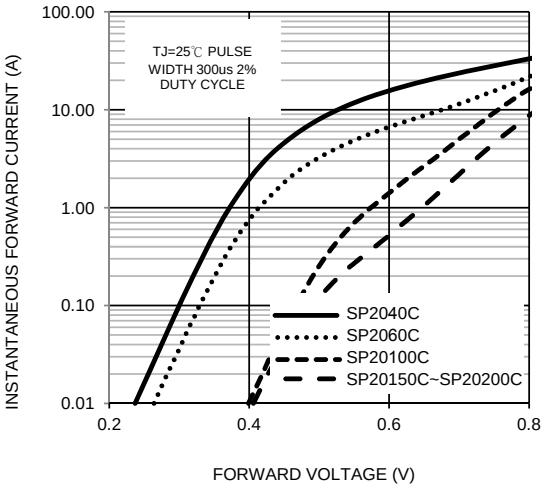


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

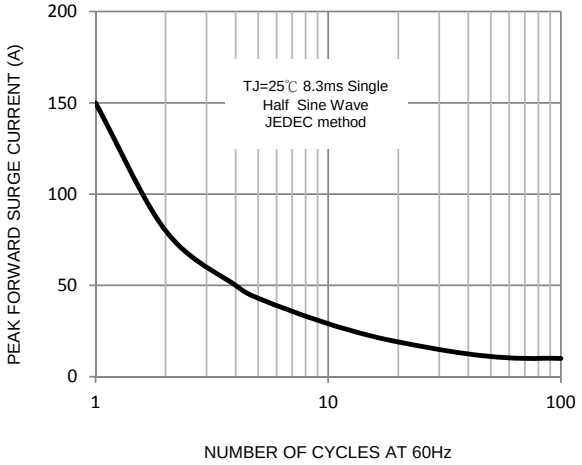


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

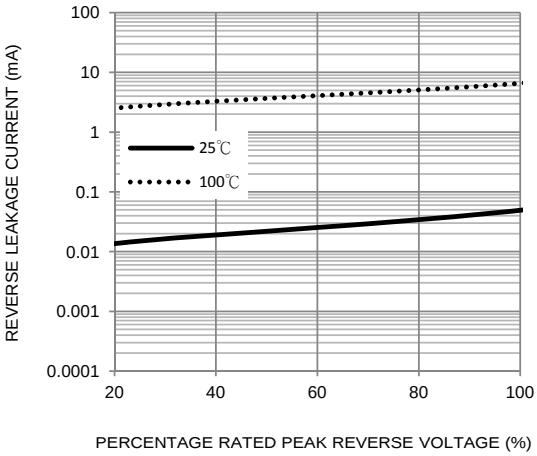


FIG. 5-TYPICAL JUNCTION CAPACITANCE

