



PRIMARY CHARACTERISTICS

I_{FSM}	150 A
I_F	10A X 2
V_{RRM}	40~200V
V_F	0.55V,0.75V,0.85V,0.92V
T_J Max	125°C,150°C

FEATURES

- Guard Ring for over voltage Protection
- High forward surge capability
- High frequency operation
- Component in accordance to RoHS 2002/95/EC
- Moisture Sensitivity Level 1

ITO-220 PACKAGE

- Body Marking Example [X:Please see specifications](#)



(Samples are usually not indicated Date Code)

V:Product Lines

Y:AD late code, ex : 3-2013,4-2014

M:Month, ex : 1-1,2-2,---10-O,11-N,12-D

MECHANICAL DATA

- Case : Molded plastic, ITO-220
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant

MAXIMUM RATINGS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	SP2040C	SP2045C	SP2060C	SP20100C	SP20150C	SP20200C	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	40	45	60	100	150	200	V
Maximum RMS voltage	V _{RMS}	28	31.5	42	70	105	140	V
Maximum DC blocking voltage	V _{DC}	40	45	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 _{θJC}	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

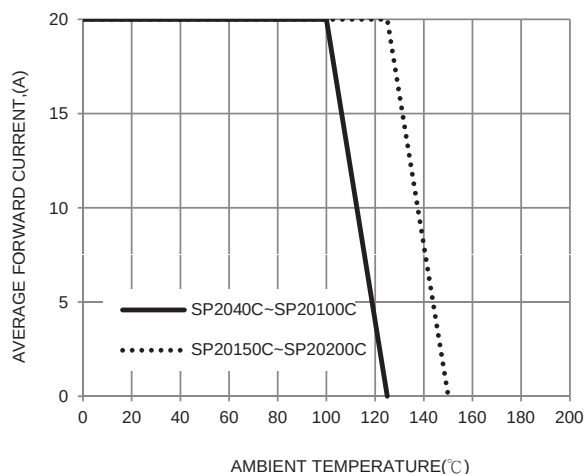


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

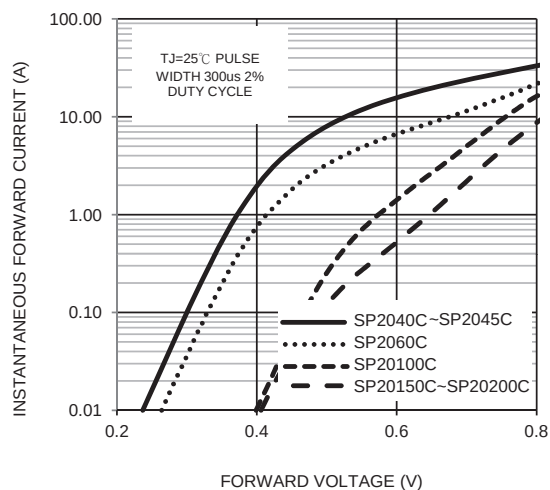


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

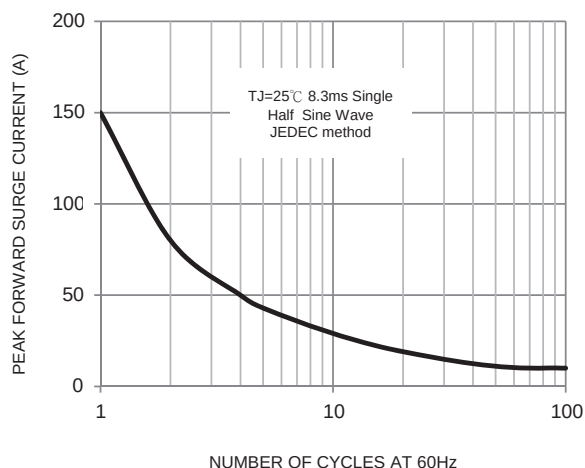


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

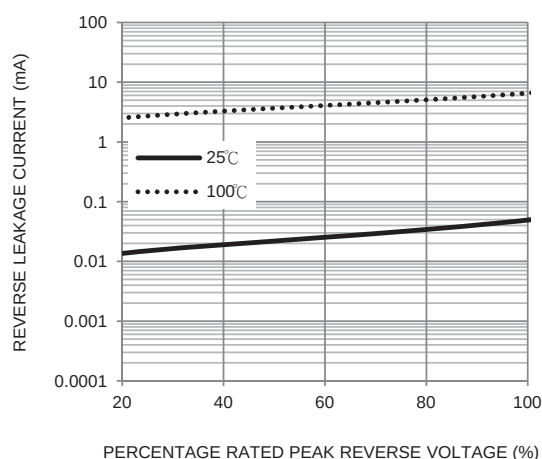
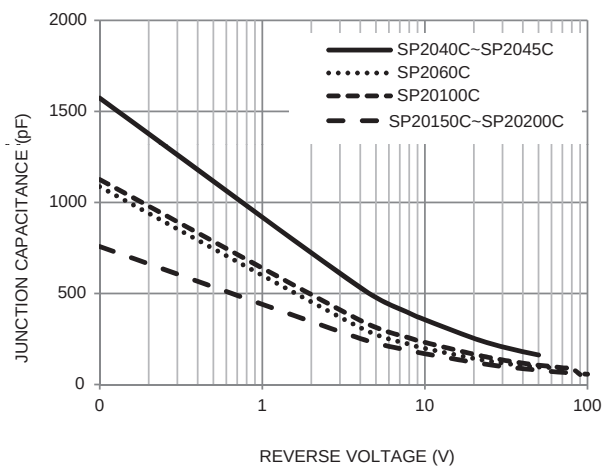


FIG. 5-TYPICAL JUNCTION CAPACITANCE





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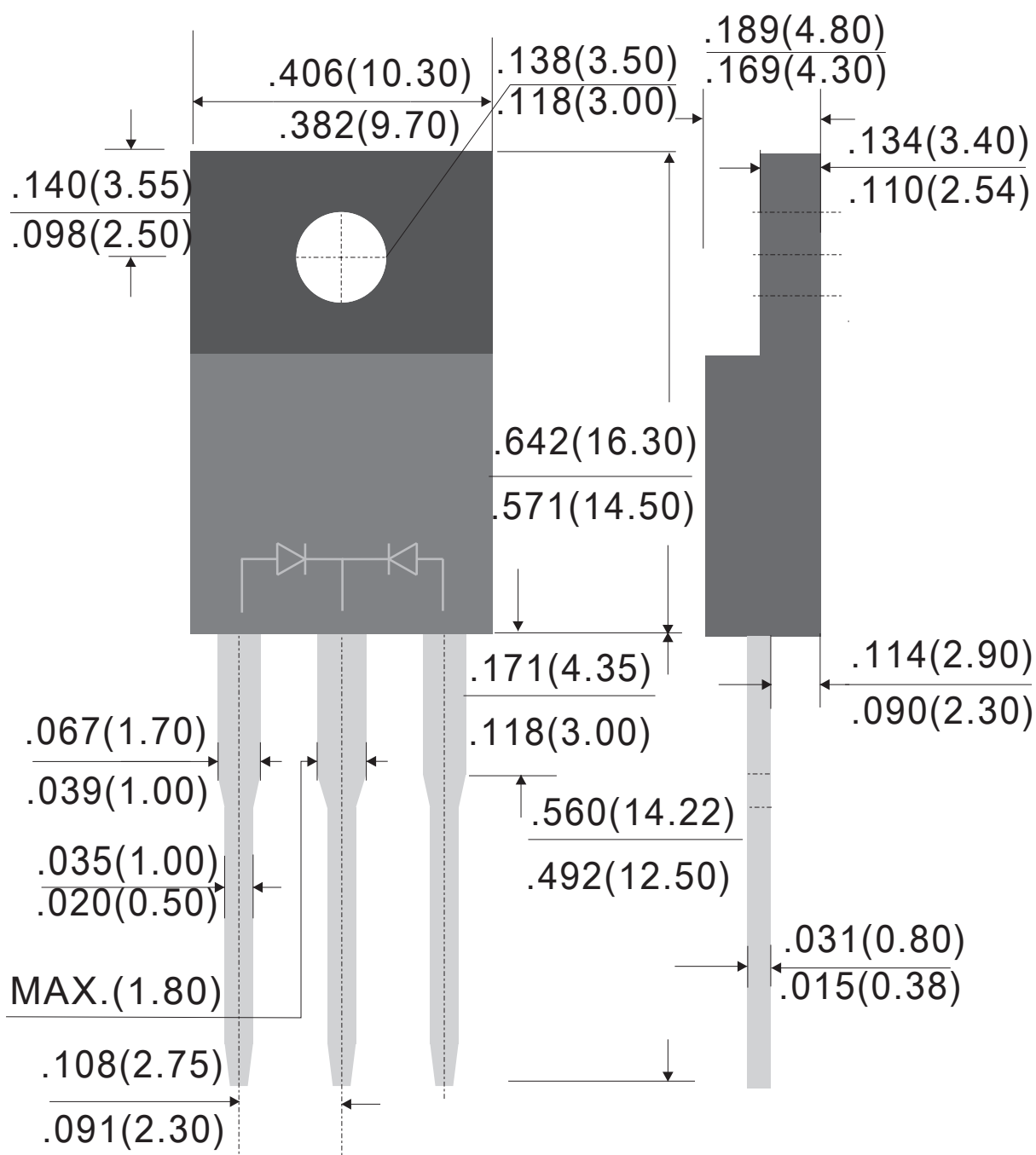


20.0A SCHOTTKY BARRIER RECTIFIERS- 40V~200V

SP2040C
THRU
SP20200C

Outline Drawing

ITO-220



Dimensions in inches and (millimeters)

Rev.J

Ordering Information:

Device PN	Packing
Part Number - ⁽¹⁾ G ⁽²⁾ -WS	Tube Packing:50pcs/Tube; 1000pcs/Box

Note: 1. Packing code: Empty is Tube Packing

2. RoHS product for packing code suffix "G", Halogen free product for packing code suffix "H" .

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