

SP1020C thru SP10200C



Schottky Barrier Rectifiers



ITO-220AB

I _F	10	Α
V_{RRM}	20~200	V
I _{FSM}	100	Α
I _F =5A @ V _F	0.55 \ 0.70 \ 0.85 \ 0.92	V
T _J max	150	°C

Features

- · Guard Ring for Over Voltage Protection
- High Forward Surge Capability
- · High Frequency Operation

Mechanical Data

Primary Characteristics

· Case: ITO-220AB

 Case Material : Molded Plastic, UL Flammability Classification Rating 94V-0

Classification Rating 94V-0

 Terminals: Matte Tin Finish Annealed Over Copper Leadframe. Solderable per MIL-STD-202,

Method 208

• Weight: 1.645 grams (approximate)

Ordering Information									
Part No.	Remark	Package	Packing						
SP10xxC	RoHS Compliant	ITO-220AB	50 / Tube						
SP10xxC-H	Halogen Free	110-220AB	50 / Tube						

Maximum Ratings (TA=25°C unless otherwise noted)												
Parameter	Symbol	SP10 20C	SP10 30C	SP10 40C	SP10 45C	SP10 50C	SP10 60C	SP10 80C	SP10 100C	SP10 150C	SP10 200C	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	45	50	60	80	100	150	200	V
Maximum RMS Voltage		14	21	28	31.5	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	45	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current (Total) (Per Leg)	I _F	10 5							Α			
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	100							Α			
Maximum Instantaneous Forward Voltage IF=5A @ 25°C	V _F	0.55 0.70			0.	0.85 0.		92	٧			
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C	I _R	0.5 20 0.2 20						mA				
Typical Junction Capacitance (NOTE1)	CJ	290 220 160 150			150	110	pF					
Typical Thermal Resistance	$R_{\theta JC}$	3							°C/W			
Operating Temperature Range	T_J	-55 to +150								°C		
Storage Temperature Range	T _{STG}	-55 to +150								°C		
Marking Code		SP10 20C	SP10 30C	SP10 40C	SP10 45C	SP10 50C	SP10 60C	SP10 80C	SP10 100C	SP10 150C	SP10 200C	

NOTES:

^{1.}Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

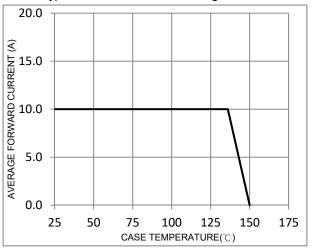


FIG. 3-Maximum Non-Repetitive Forward Surge Current

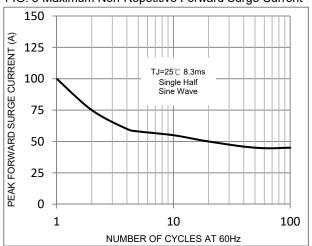


FIG. 5-Typical Junction Capacitance

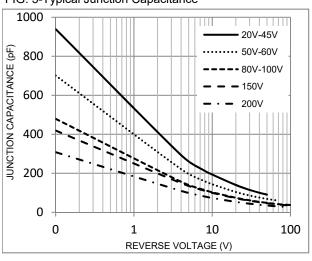


FIG. 2-Typical Forward Characteristics

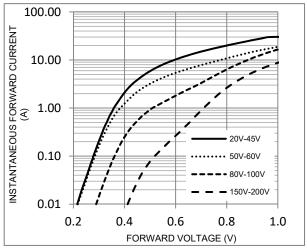
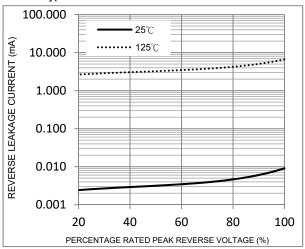


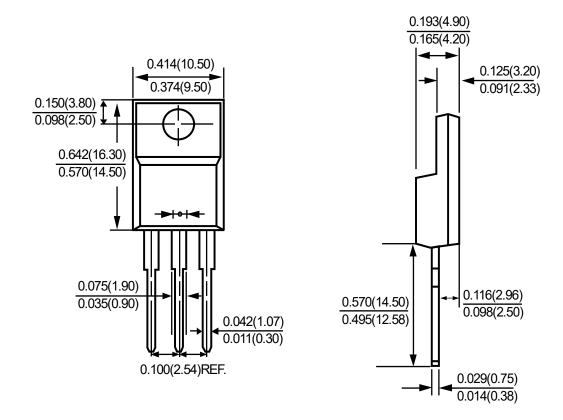
FIG. 4-Typical Reverse Characteristics





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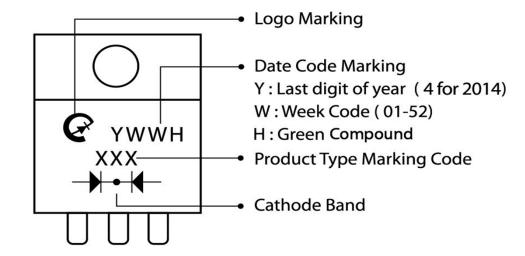
Package Outline Dimensions



ITO-220AB

Dimensions in inches and (millimeters)

Marking Information





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