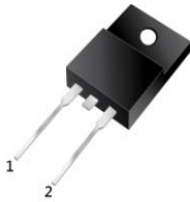




EBRP8300FST



Excellent Schottky Barrier Rectifiers



ITO-220AC

Primary Characteristics		
I_F	8	A
V_{RRM}	300	V
I_{FSM}	120	A
V_F	0.92	V
T_J max	150	°C

Features
<ul style="list-style-type: none"> • Low Forward Voltage Drop • Excellent High Temperature Stability • Excellent Barrier Rectifier Technology • Soft, Fast Switching Capability

Mechanical Data
• Case: ITO-220AC
• Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
• Terminals: Lead free Plating (Tin Finish) Solderable per MIL-STD-202, Method 208
• Polarity: Cathode Band
• Weight: 1.57 grams (approximate)

Ordering Information			
Part No.	Remark	Package	Packing
EBRP8300FST	General	ITO-220AC	50 & 2000 / Tube & Box
EBRP8300FST-H	Halogen Free		

Maximum Ratings (TA=25°C unless otherwise noted)			
PARAMETER	SYMBOL	EBRP8300FST	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	300	V
Maximum RMS voltage	V_{RMS}	210	V
Maximum DC blocking voltage	V_{DC}	300	V
Maximum average forward rectified current	I_F	8	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	120	A
Maximum Instantaneous Forward Voltage IF=3A @ 25°C IF=8A @ 25°C	V_F	0.76 Typ. 0.92 Max.	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C	I_R	0.01 5	mA
Typical Junction Capacitance(NOTE1)	C_j	95	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		P8300FST	

NOTES:

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



Excellent Schottky Barrier Rectifiers

Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

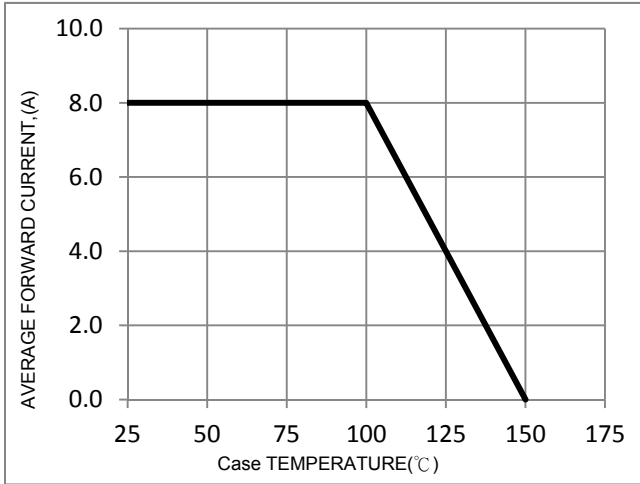


FIG. 2-Typical Forward Characteristics

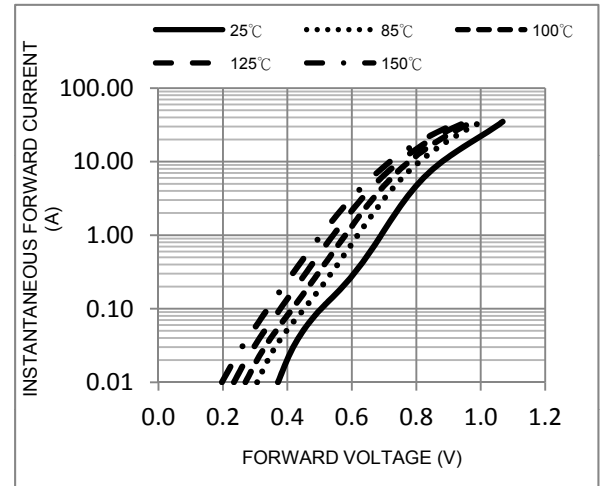


FIG. 3-Maximum Non-Repetitive Forward Surge Current

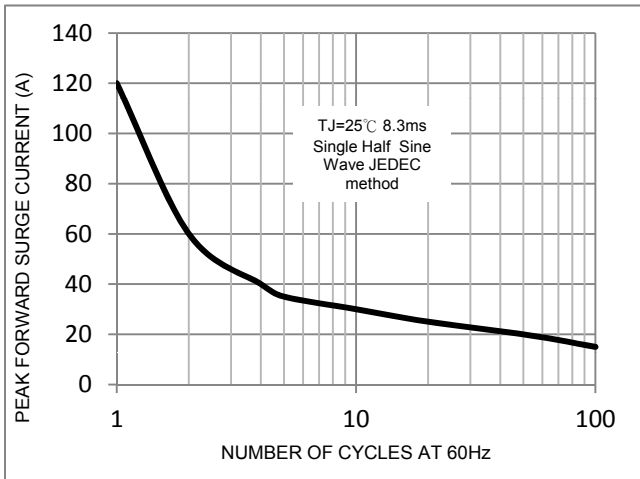


FIG. 4-Typical Reverse Characteristics

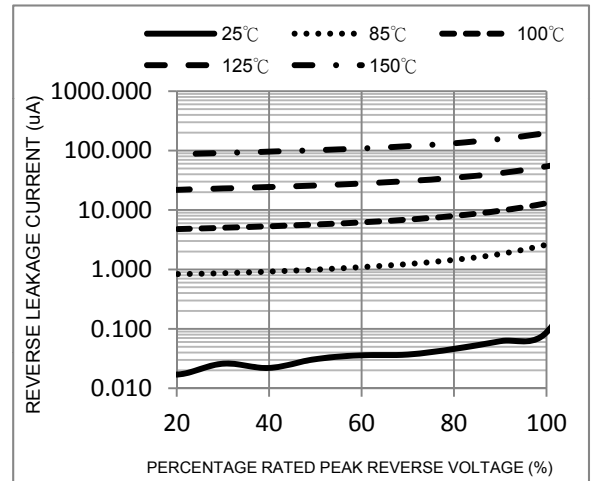
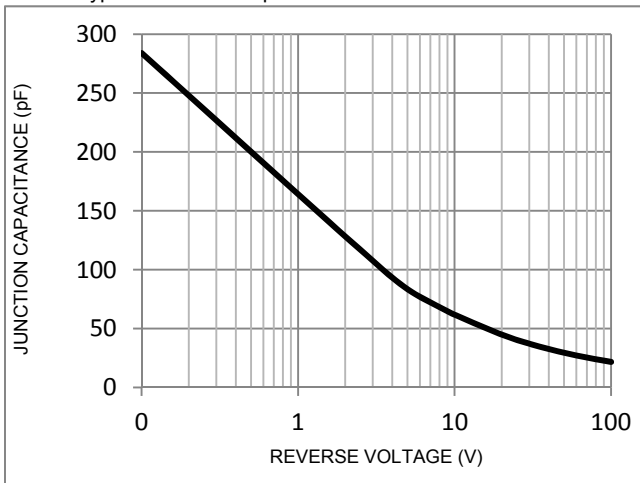
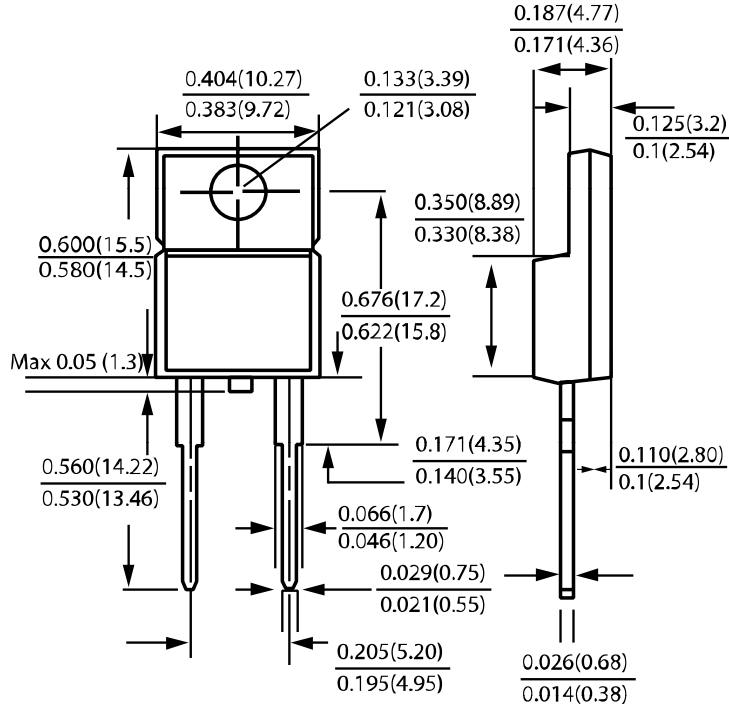


FIG. 5-Typical Junction Capacitance





Package Outline Dimensions



ITO-220AC

Dimensions in inches and (millimeters)

Marking Information

