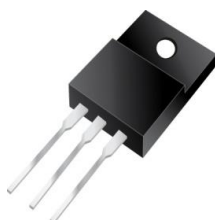




T20E150FCT



Excellent Schottky Barrier Rectifiers



ITO-220AB

Features
<ul style="list-style-type: none"> • Low power loss, high efficiency • Low forward voltage drop • High forward surge capability • High frequency operation • Excellent high temperature stability

Ordering Information		
Part No.	Package	Packing
T20E150FCT	ITO-220AB	50 & 2000 / Tube & Box

Device P/N	
Part Number	Remark
T20E150FCT	General
T20E150FCT-H	Halogen Free

Primary Characteristics		
I_F	20	A
V_{RRM}	150	V
I_{FSM}	150	A
V_F	0.62 ($I_F=5A$ $T_J=125^\circ C$)	V
T_J max	150	$^\circ C$

Mechanical Data
<ul style="list-style-type: none"> • Case: ITO-220AB • Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0 • Terminals: Matte Tin Finish annealed over Copper leadframe. Solderable per MIL-STD-202, Method 208 • Weight: 1.645 grams (approximate)

Maximum Ratings ($T_A=25^\circ C$ unless otherwise noted)			
PARAMETER	SYMBOL	T20E150FCT	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	150	V
Maximum RMS voltage	V_{RMS}	105	V
Maximum DC blocking voltage	V_{DC}	150	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	A
Maximum Instantaneous Forward Voltage $I_F=5A$ @ $25^\circ C$ $I_F=5A$ @ $125^\circ C$ $I_F=10A$ @ $25^\circ C$ $I_F=10A$ @ $125^\circ C$	V_F	0.77 Typ. 0.62 Typ. 0.83 Max. 0.75 Max.	V
Maximum DC Reverse Current @ $T_A=25^\circ C$ at Rated DC Blocking Voltage @ $T_A=125^\circ C$	I_R	0.2 15	mA
Typical Junction Capacitance(NOTE1)	C_j	720	pF
Typical Thermal Resistance	$R_{\theta JC}$	3	$^\circ C/W$
Operating Temperature Range	T_J	-55 to +150	$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +175	$^\circ C$
Marking Code		20E150FCT · T20E150FCT	

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

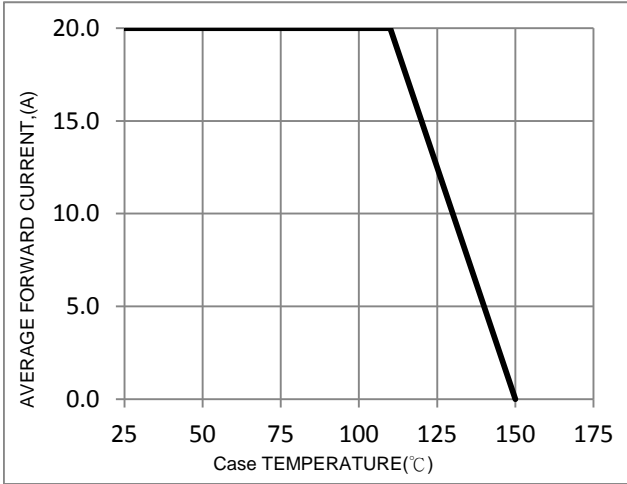


FIG. 2-Typical Forward Characteristics

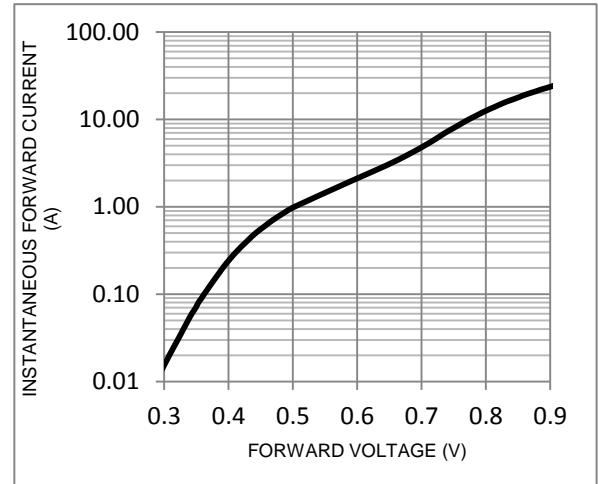


FIG. 3-Maximum Non-Repetitive Forward Surge Current

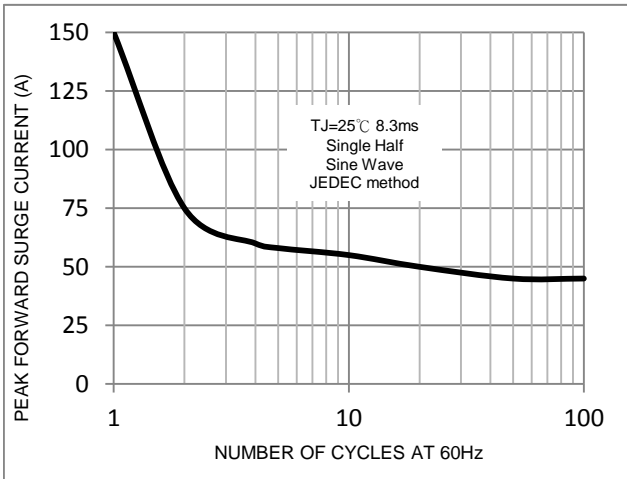


FIG. 4-Typical Reverse Characteristics

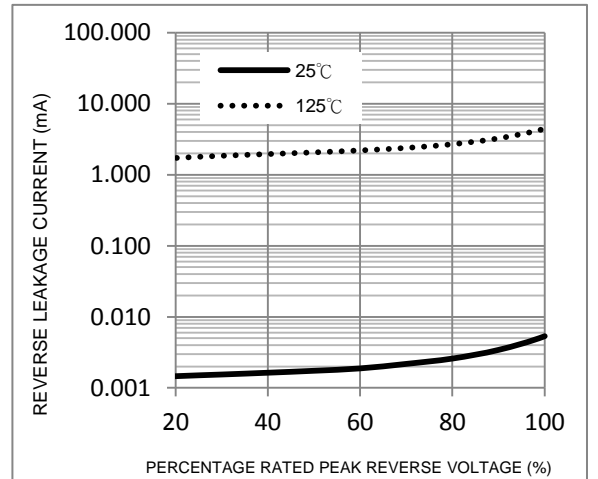
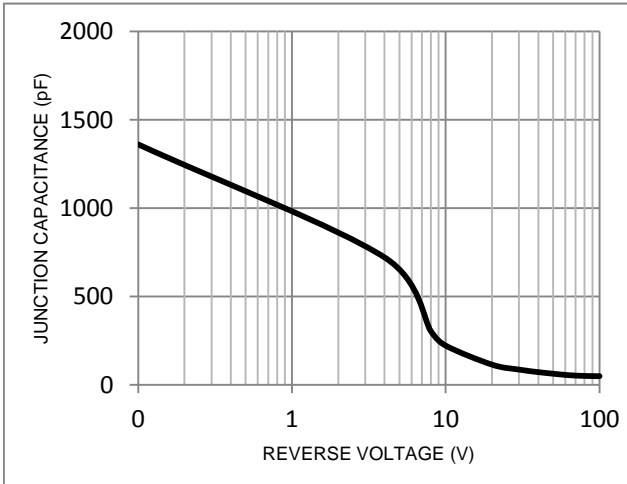
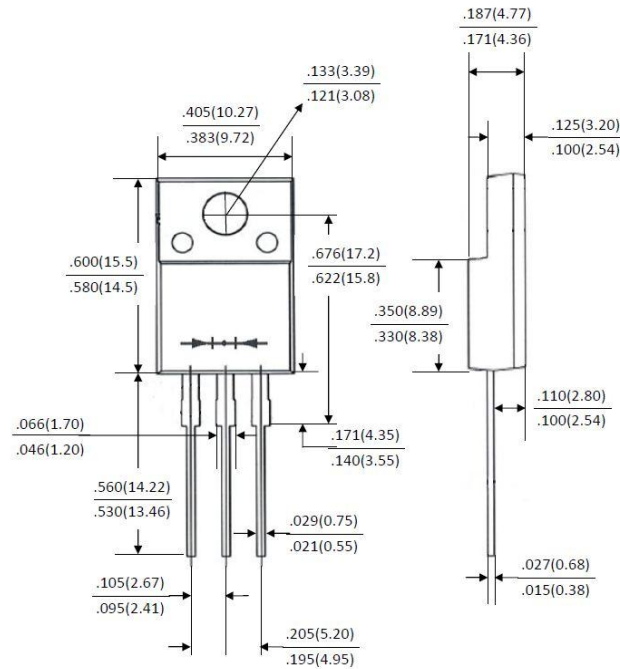


FIG. 5-Typical Junction Capacitance



Package Outline Dimensions



ITO-220AB

Dimensions in inches and (millimeters)

Marking Information

