

TO-220 Plastic-Encapsulate Diodes

Schottky Rectifier

Features

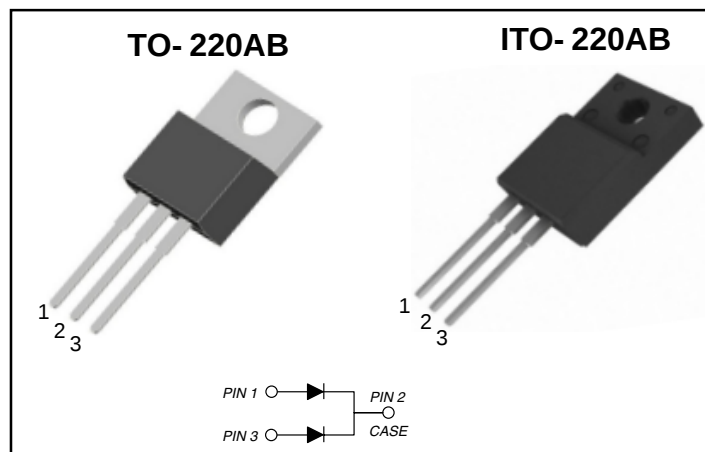
- I_o 20A
- V_{RRM} 100V
- High surge current capability
- Low V_f

Applications

- Rectifier

Marking

- HD20U100(F)CT



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	HD20U100(F)CT
Repetitive Peak Reverse Voltage	V_{RRM}	V		100
Average Rectified Output Current	I_o	A	60HZ Half-sine wave, Resistance load, T_c (Fig.1)	20.0
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave , 1 cycle , $T_a=25^{\circ}C$	180
Junction Temperature	T_J	$^{\circ}C$		-55~+150
Storage Temperature	T_{STG}	$^{\circ}C$		-55 ~ +150

Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition		HD20U100(F)CT	
Peak Forward Voltage	V _F	V	I _F =10.0A		0.65(TYP)	0.68(MAX)
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	T _a =25℃	0.1	
	T _a =125℃			5		
Thermal Resistance(Typical)	R _{θJ-C}	℃/W	Between junction and case		2.0 ¹⁾	

Notes:

Thermal resistance from junction to case per leg with heat-sink size of 2"×3"×0.25" AL-plate

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

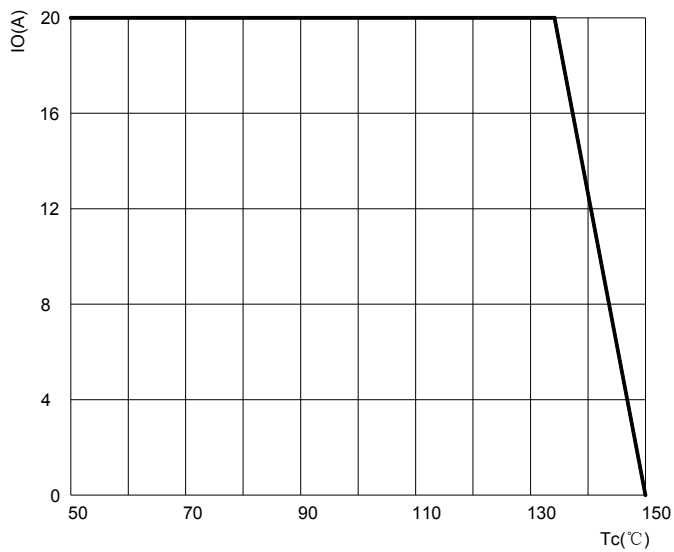


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

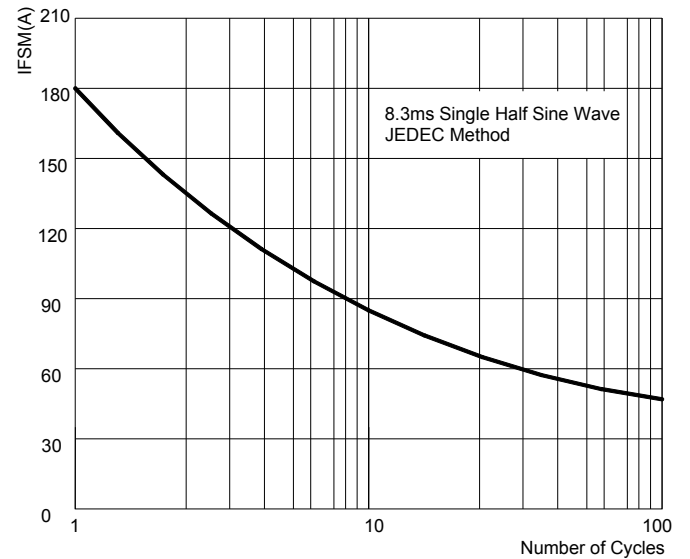


FIG3: Instantaneous Forward Voltage

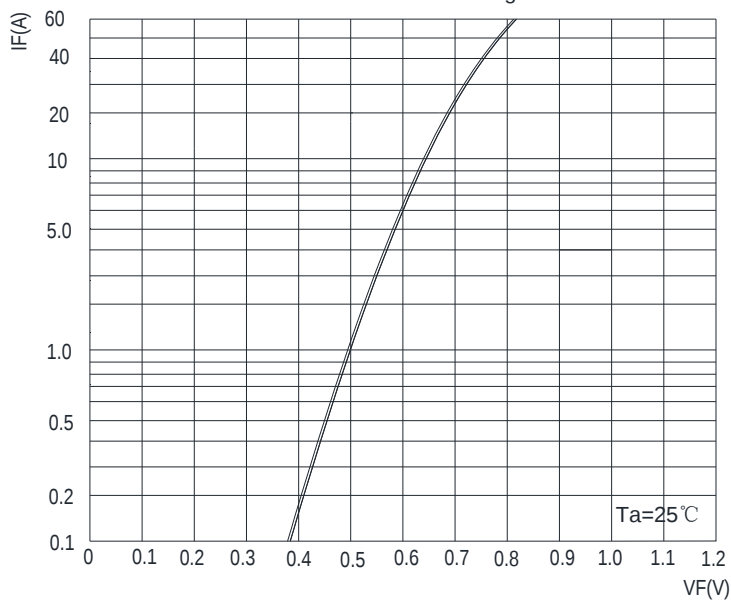
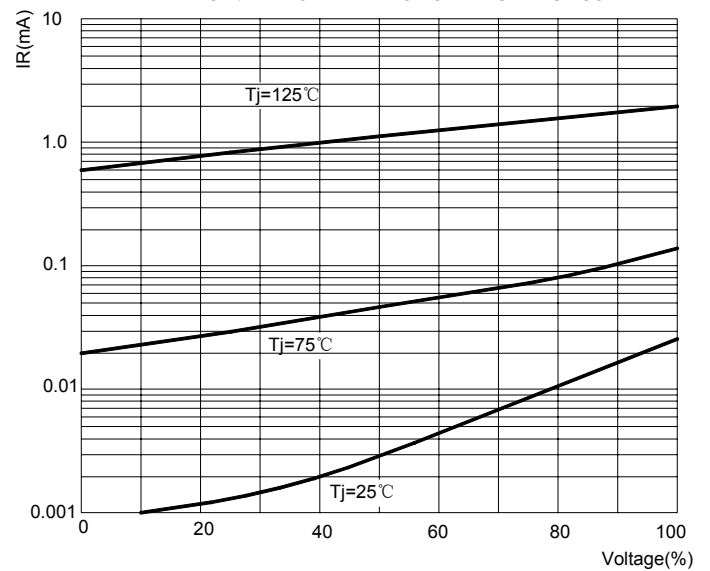
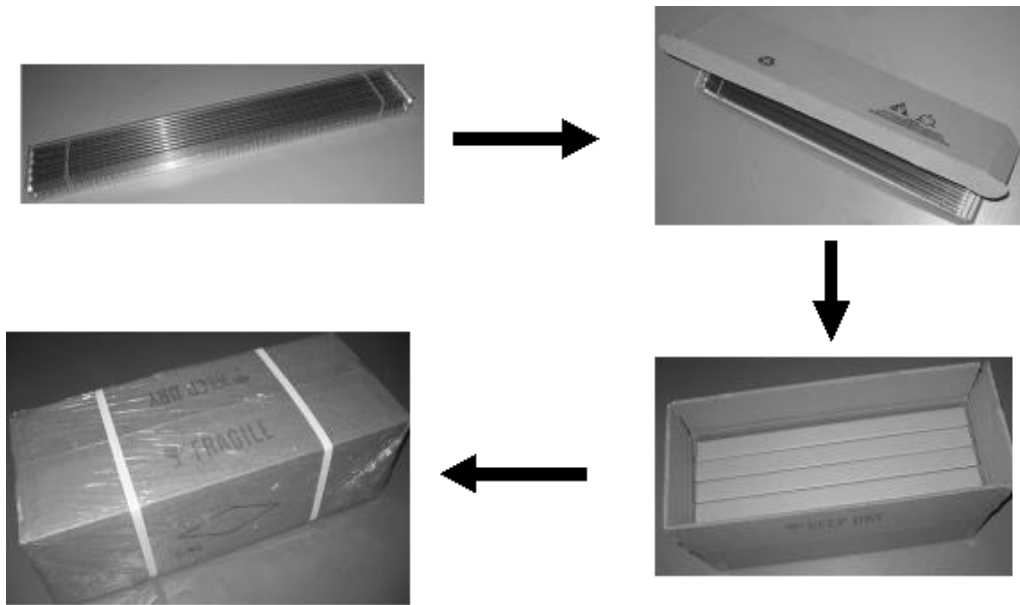


FIG.4: TYPICAL REVERSE CHARACTERISTICS



TO- 220 Packing Information



Part Number	Quantity	Size (mm)
tube	50 pieces	530*33*7
inner box	1000 pieces	558*150*40
outer container	5000 pieces	570*235*170