

ITO-220AB Axial Fast Recovery Rectifier

Features

- Low profile package
- Ideal for automated placement
- Glass passivated pallet chip junction
- Fast reverse recovery time
- Fast switching for high efficiency
- High forward surge capability

Applications

For use in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer, computer, automotive, and telecommunication

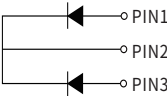
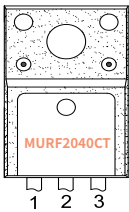
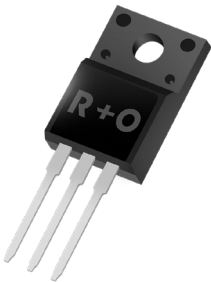
Mechanical Data

- Case: ITO-220AB
Molding compound meets UL 94V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026

Function Diagram

Reverse Voltage
400 V
Forward Current
20 Ampere

ITO-220AB



Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MURF2040CT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	400
Maximum RMS Voltage	V_{RMS}	V	280
Maximum DC blocking Voltage	V_{DC}	V	400
Maximum Average Forward Rectified Current @60Hz sinewave, Resistance load,TL (Fig.1)	$I_{F(AV)}$	A	20
Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave	I_{FSM}	A	80
Storage temperature	T_{stg}	°C	-40 ~ +150
Junction temperature	T_j	°C	-40 ~ +150
Typical Thermal Resistance	$R_{\theta J-C}$	°C /W	3.5

Electrical Characteristics (Ta=25°C Unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	MURF2040CT
Maximum instantaneous forward voltage	$I_F=10A$	V_F	V	1.3
Maxinum reverse recovery time	$I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$	T_{rr}	ns	35
Maximum DC reverse currentat rated DC blocking voltage	$V_R=V_{DC}, T_A=25^{\circ}C$	I_{R1}	μA	5
	$V_R=V_{DC}, T_A=125^{\circ}C$	I_{R2}		400

Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)

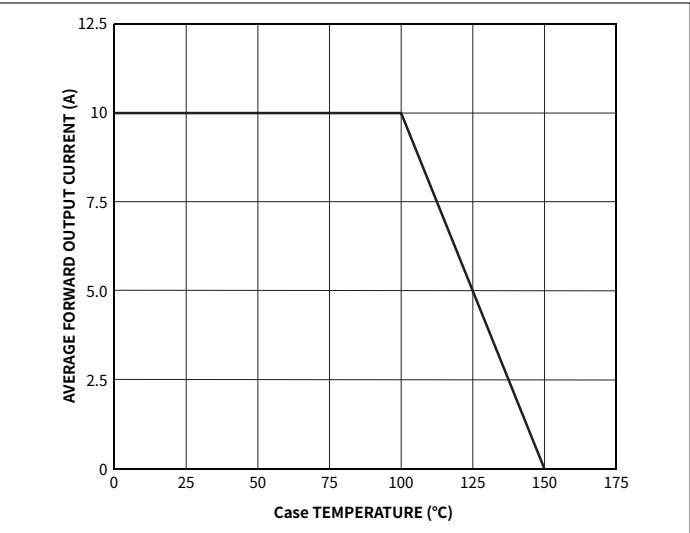


Fig.1 Forward Current Derating Curve

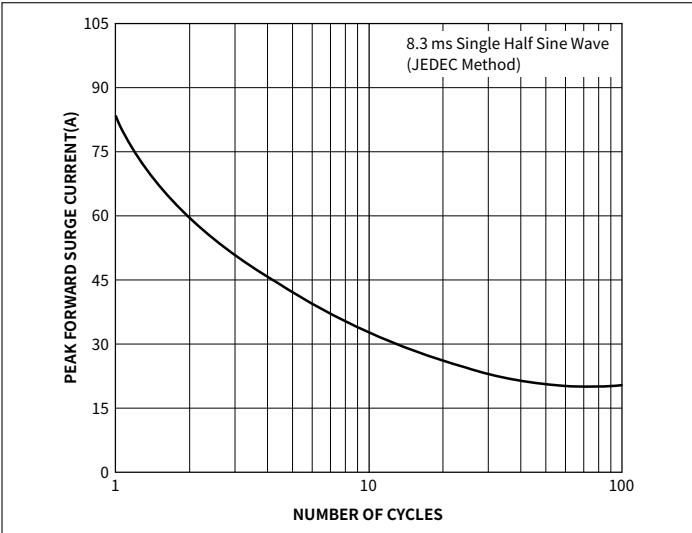


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

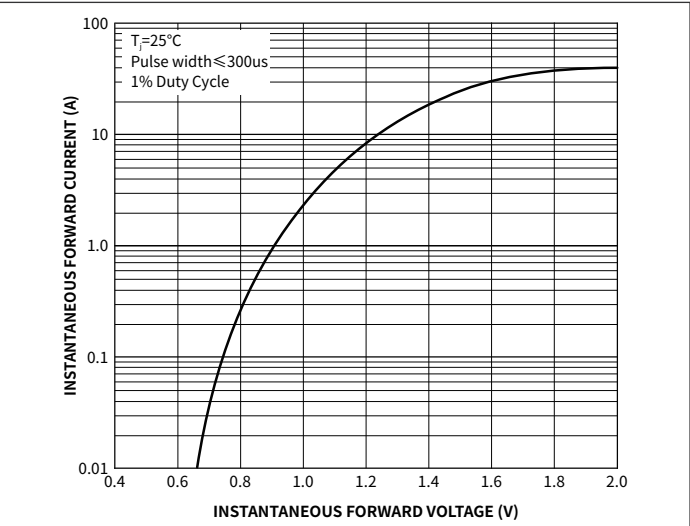


Fig.3 Typical Forward Voltage

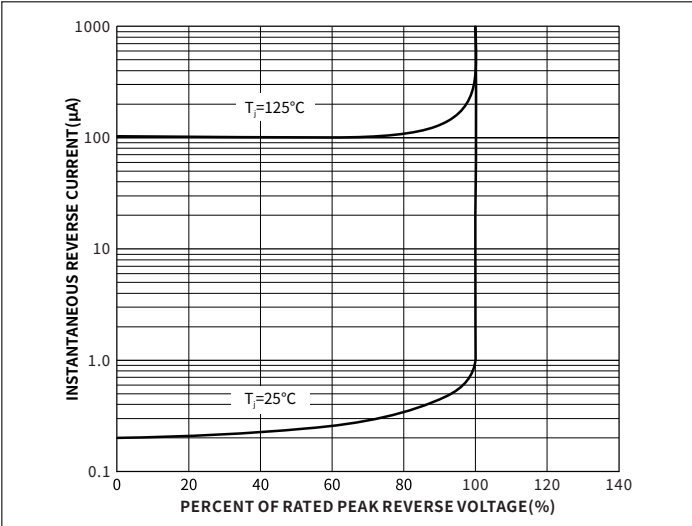


Fig.4 Typical Reverse Characteristics

Ordering Information

Table with 5 columns: PACKAGE, UNIT WEIGHT(g), TUBE(pcs), BOX(pcs), CARTON(pcs). Row 1: ITO-220AB, 2.26, 50, 1000, 5000.

Package Outline Dimensions (ITO-220AB)

