

ITO-220AC 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

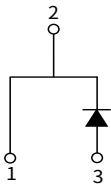
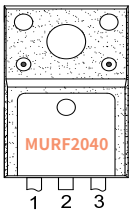
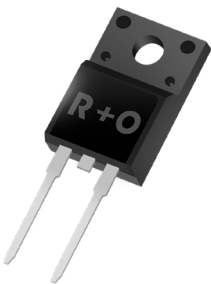
Mechanical Data

- Case: ITO-220AC
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-220AC



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

PARAMETER	SYMBOL	UNIT	MURF2040
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	250
Storage temperature	T_{stg}	°C	-55 ~ +150
Junction temperature	T_j	°C	-55 ~ +150
Typical Thermal Resistance	$R_{\theta J-C}$	°C /W	4

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

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	MURF2040
Maximum instantaneous forward voltage	$I_F=20A$	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	1.0
	$V_R=V_{DC}, T_A=125^{\circ}C$	I_{R2}		100

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

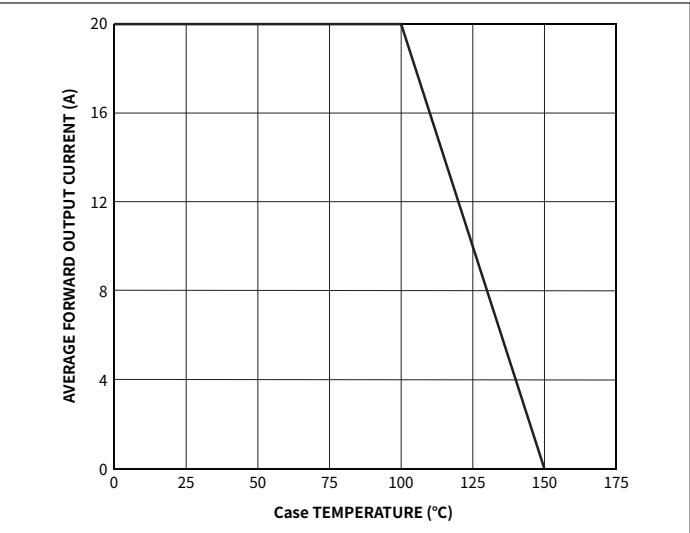


Fig.1 Forward Current Derating Curve

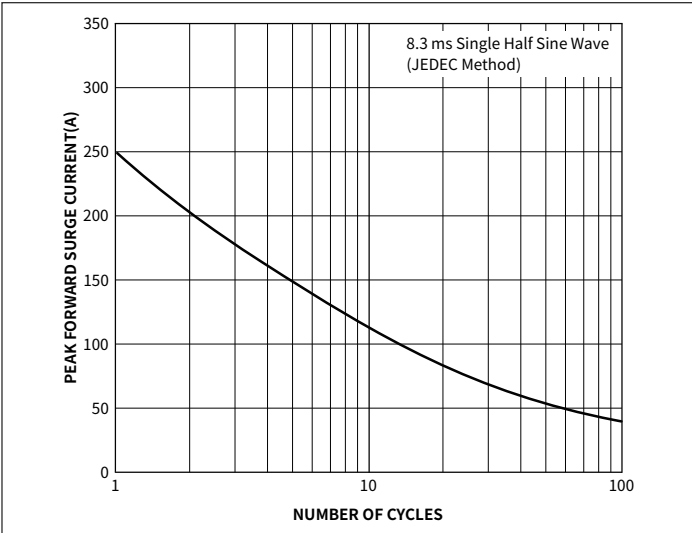


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

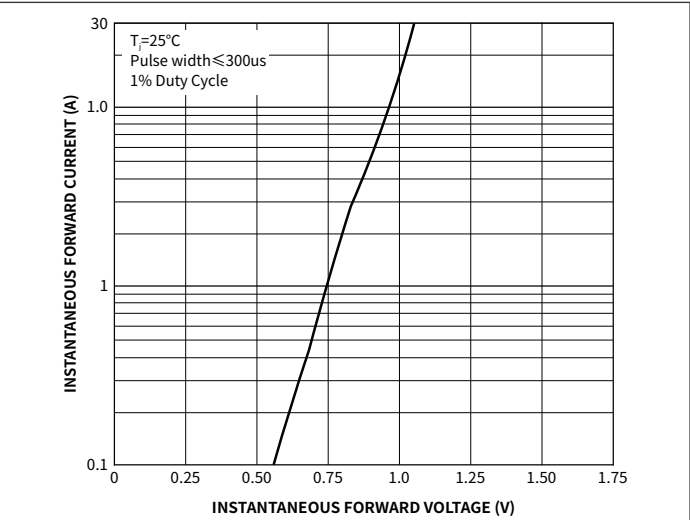


Fig.3 Typical Forward Voltage

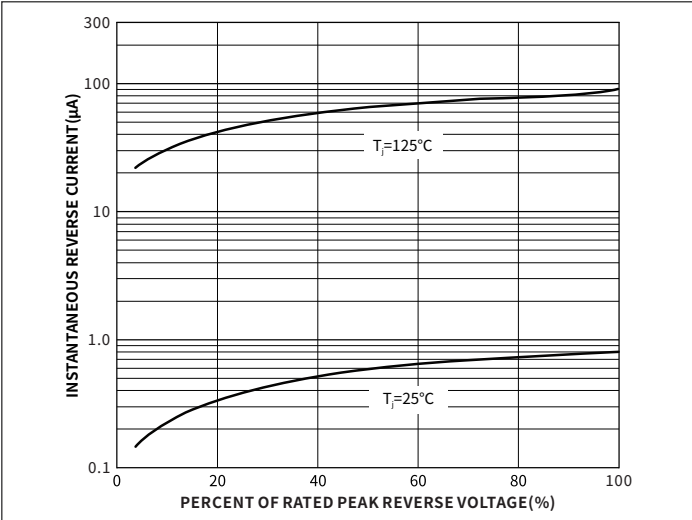


Fig.4 Typical Reverse Characteristics

MURF2040

AXIAL FAST RECOVERY RECTIFIER

● Ordering Information

PACKAGE	UNIT WEIGHT(g)	TUBE(pcs)	BOX(pcs)	CARTON(pcs)
ITO-220AC	2.43	50	1000	5000

● Package Outline Dimensions (ITO-220AC)

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	14.9	16.0	0.587	0.630
B	9.90	10.40	0.390	0.409
C	6.20	6.95	0.244	0.274
D	8.50	9.30	0.335	0.366
E	2.50	3.50	0.098	0.138
F	12.8	-	0.504	-
G	1.15	1.5	0.045	0.059
H	4.90	5.20	0.193	0.205
I	0.45	0.95	0.018	0.037
J	0.40	0.65	0.016	0.026
K	4.35	4.80	0.171	0.189
L	2.45	2.85	0.096	0.112
M	2.50	3.15	0.098	0.124
O	Φ3	Φ3.5	Φ3	Φ3.5
P	0	1.5	0	0.059