MUR1640CT

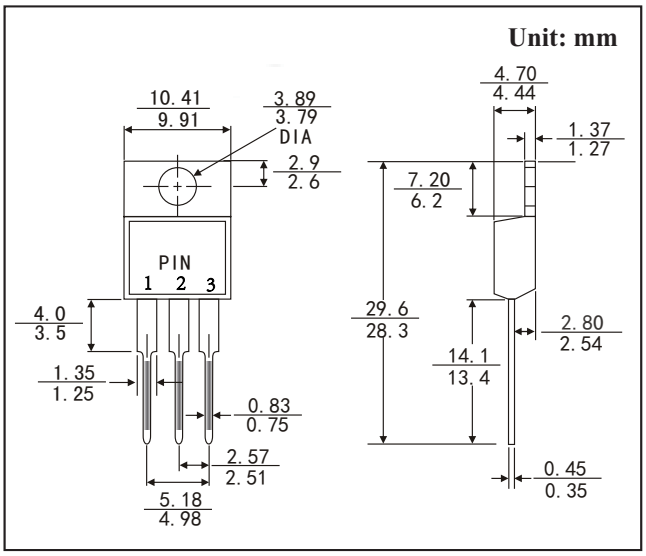
TO-220AB Ultra-Fast Recovery Rectifier Diodes

FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- Low Power Loss，High Efficiency
- Ultrafast 35 and 60 Nanosecond Recovery times
- UL 94V-0 rate flame retardant
- Axial leads, solderable per MIL-STD-202 method 208 guranteed

MECHANICAL DATA

- Case style:TO-220AB molded plastic
- Mounting position:any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	400	V
Maximum RMS Voltage	VRMS	280	V
Maximum DC Blocking Voltage	VDC	400	V
Maximum Average Forward Rectified Current	I_F	16	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	100	A
Maximum Instantaneous Forward Voltage @8A	VF	1.3	V
Maximum Reverse Current @ Rated VR TA=25 ℃ TA=125℃	IR	10 500	uA
Typical Junction Capacitance (Note 1)	Cj	150	pF
Typical Thermal Resistance(Note 2)	RθJA	30	℃/w
Operating and Storage Temperature Range	TJ	-65～+150	℃
Maximum reverse recovery time (Note 3)	Trr	50	nS

NOTE1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C
NOTE2. Leads maintained at ambient temperature at a distance of 9.5mm from the case
NOTEE3. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.

RATINGS AND CHARACTERISTIC CURVES

FIG1:Io -Tc Curve

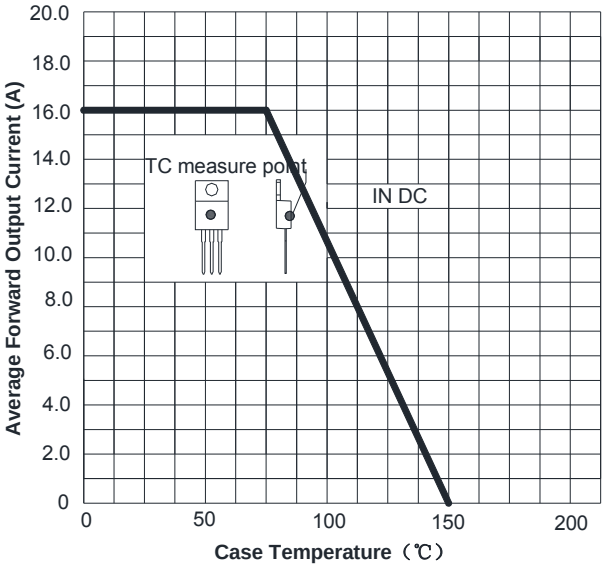


FIG2:Surge Forward Current Capability

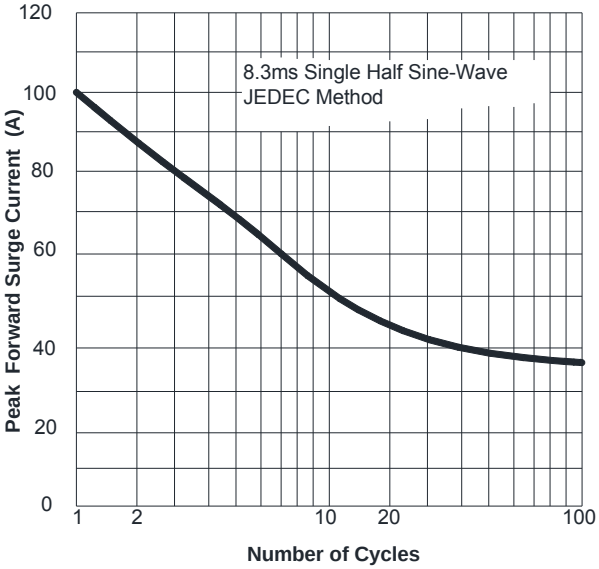


FIG3: Forward Voltage

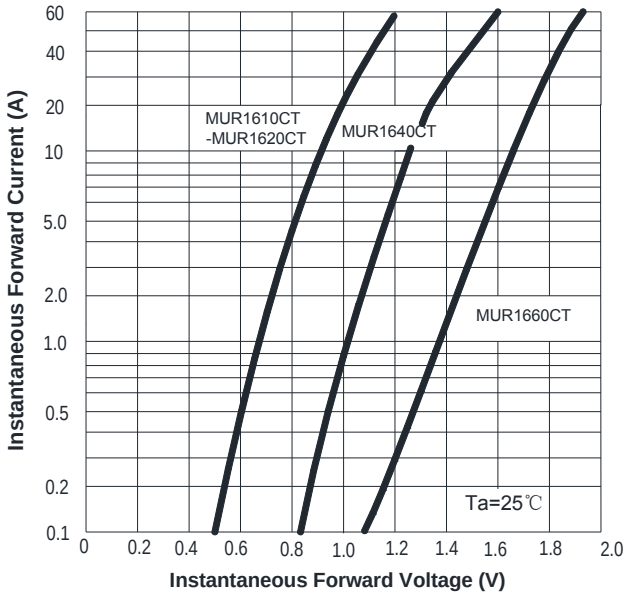


FIG4: Typical Reverse Characteristics

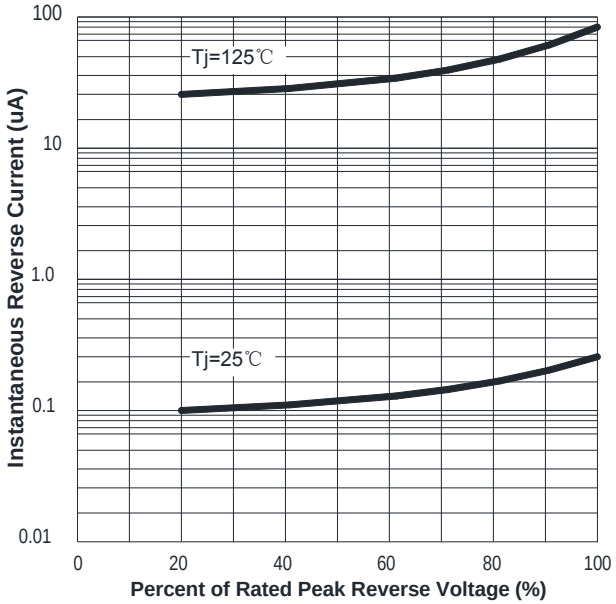


FIG.5 Diagram of circuit and Testing wave form of reverse recovery time