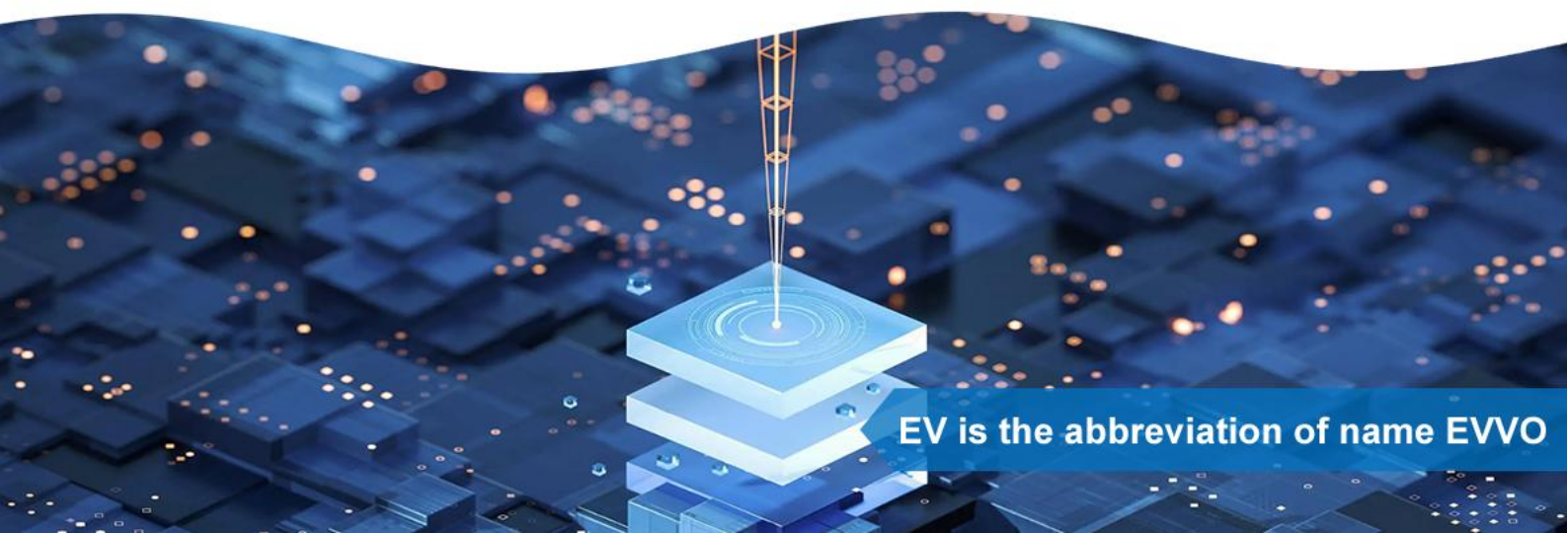
EVVOSEMI®

THINK CHANGE DO

ESD TVS MOS LDO Diode Sensor DC-DC

Product Specification

Domestic Part Number	MBR1040CT THRU MBR10200CT
Overseas Part Number	MBR1040CT THRU MBR10200CT
Equivalent Part Number	MBR1040CT THRU MBR10200CT



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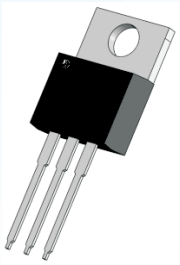
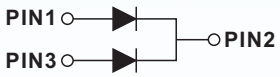
Schottky Barrier Rectifiers
Reverse Voltage - 40 to 200 V
Forward Current - 10 A

TO-220-3L

PIN2





PIN1 PIN2 PIN3

FEATURES

- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- High temperature soldering guaranteed
- Mounting position: any

Mechanical data

- Case: TO-220-3L
- Approx Weight: 2.04g (0.07oz)
- Lead free finish, RoHS compliant
- Case Material: “Green” molding compound, UL flammability classification 94V-0,“Halogen-free”.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified

CHARACTERISTICS	Symbols	MBR1040CT	MBR1045CT	MBR1060CT	MBR10100CT	MBR10150CT	MBR10200CT	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	45	60	100	150	200	V
Maximum RMS voltage	V_{RMS}	28	32	42	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	40	45	60	100	150	200	V
Maximum Average Forward Rectified Current per leg / per device	$I_{F(AV)}$	5 10						A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) per leg	I_{FSM}	100						A
Max Instantaneous Forward Voltage at 5 A(per leg)	V_F	0.70		0.75	0.85	0.90	0.92	V
Maximum DC Reverse Current T_a = 25°C / at Rated DC Reverse Voltage T_a =100°C	I_R	0.1 20			0.05 20			mA
Typical Thermal Resistance	$R_{\theta JC}$	4						°C/W
Operating Junction Temperature Range	T_j	-55 ~ +150				-55 ~ +175		°C
Storage Temperature Range	T_{stg}	-55 ~ +150				-55 ~ +175		°C

Fig.1 Typical Forward Current Derating Curve

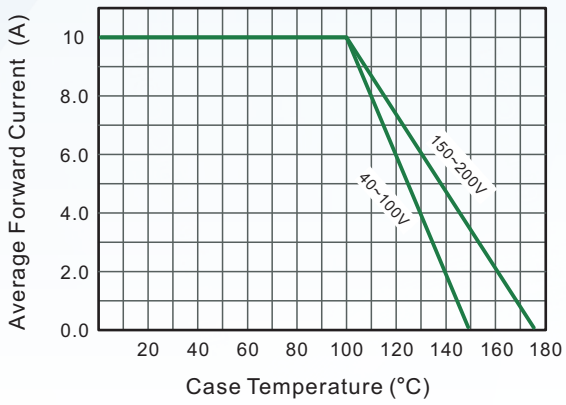


Fig.2 Typical Reverse Characteristics

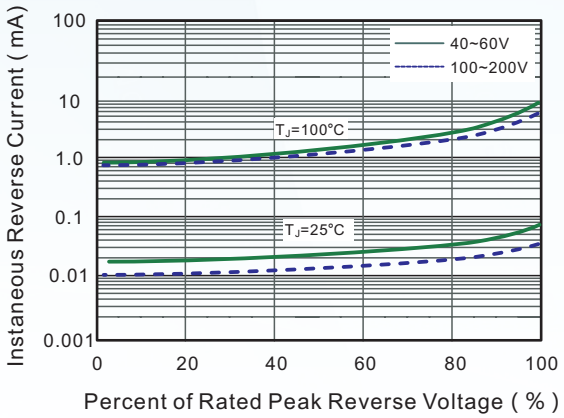


Fig.3 Typical Forward Characteristic(per leg)

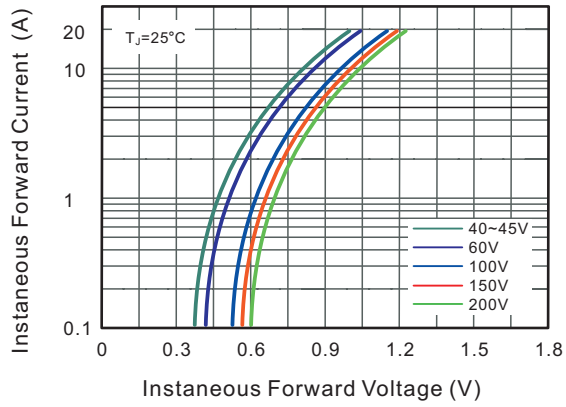
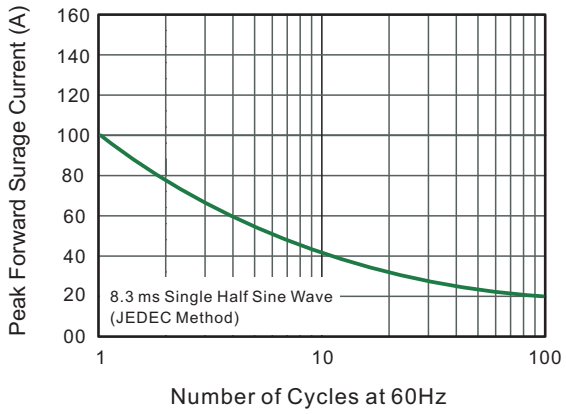


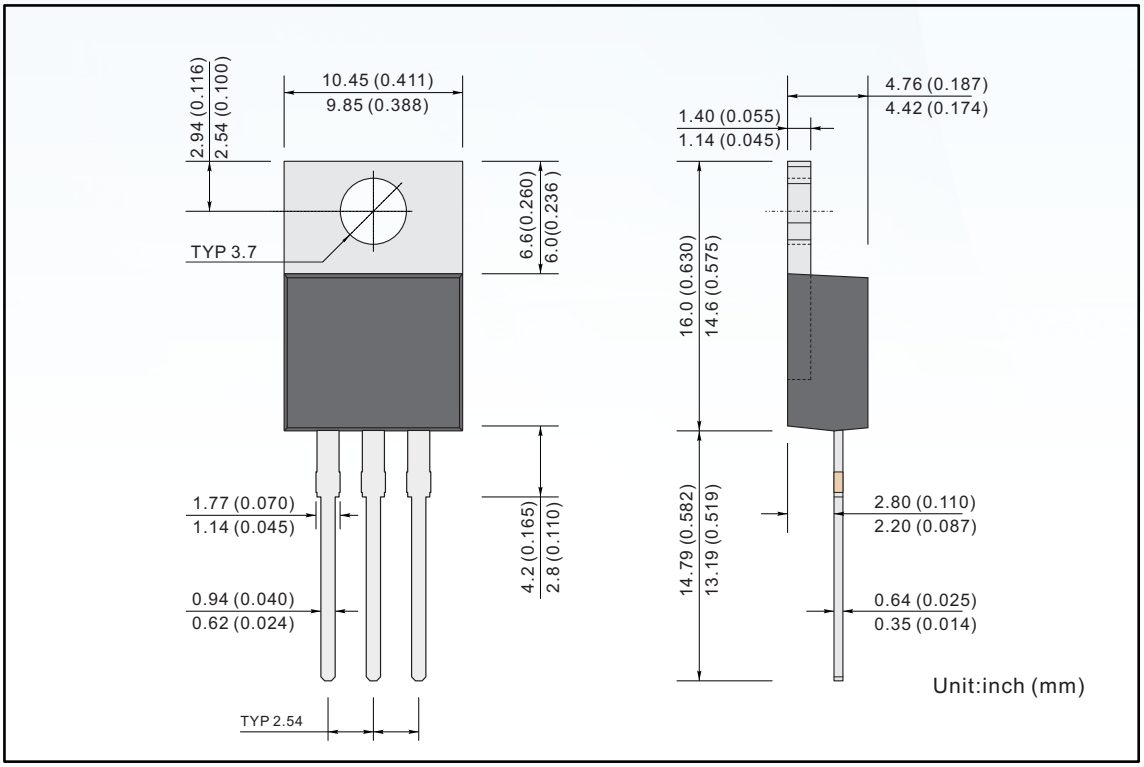
Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

TO-220AB



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