

High frequency operation
 Low forward voltage drop
 High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
 Guard ring for enhanced ruggedness and long term reliability
 Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

: TO-220AB

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

: Tin plated leads, solderable per J-STD-

002 and JESD22-B102

: As marked

($T_a=25$ Unless otherwise specified)

Device marking code			MBRL3045CT
Repetitive Peak Reverse Voltage	VRRM	V	45
Average Rectified Output Current @60Hz sine wave, R-load, T_a FIG 1	IO	A	30
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_a=25$	IFSM	A	250
Current Squared Time @1ms $t \leq 8.3ms$ $T_j=25$ rating of per diode	I ² t	A ² s	259
Storage Temperature	Tstg		-55 ~ +150
Junction Temperature	Tj		-55 ~ +150

$T_a=25$ Unless otherwise specified

Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=15.0A	0.55
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM1	mA	VRM=VRRM $T_a=25$	0.2
	IRRM2		VRM=VRRM $T_a=100$	50

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS



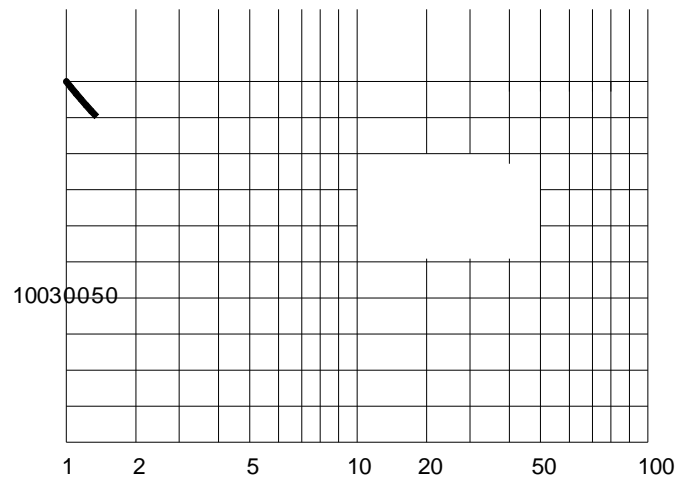
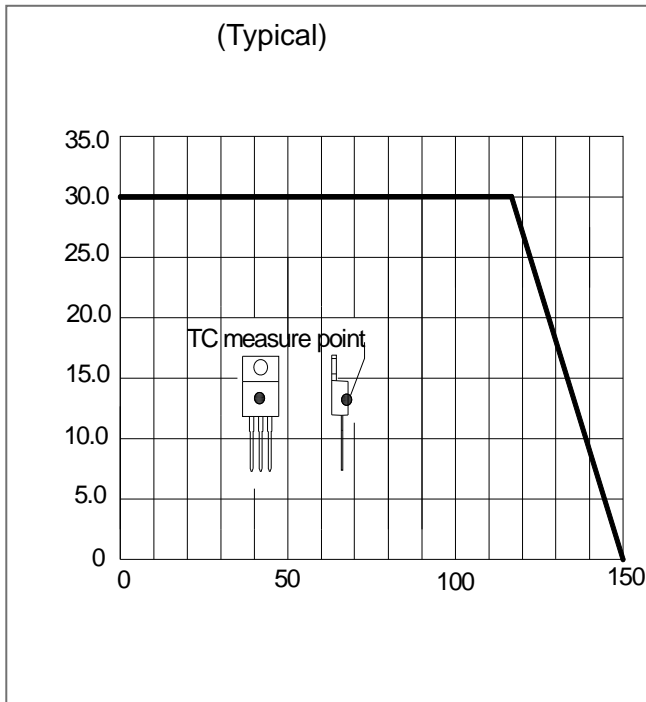
T_a=25 Unless otherwise specified

Thermal Resistance	Between junction and case	R J-C	/W	2.0
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(Example)

MBRL3045CT	Approximate 1.9	50	1000	5000	Tube
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(Typical)



v2XWOLQH 'LPHQVLRQV

