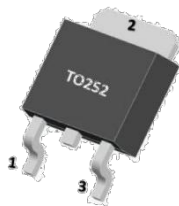


DESCRIPTION

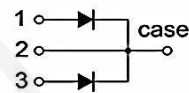
The MBR3065CT meet the ROHS and Green Product requirement with full function reliability approved.

FEATURE

- *Schottky Barrier Chip
- *Guard Ring Die Construction for Transient Protection
- *Low Power Loss,High Efficiency
- *High Surge Capability
- *High Current Capability and Low Forward Voltage Drop
- *For Use in Low Voltage, High Frequency Inverters,Free Wheeling, and Polarity Protection Applications



1. ANODE
2. CATHODE
3. ANODE



ABSOLUTE MAXIMUM RATINGS(TA=25°C, unless otherwise specified.)

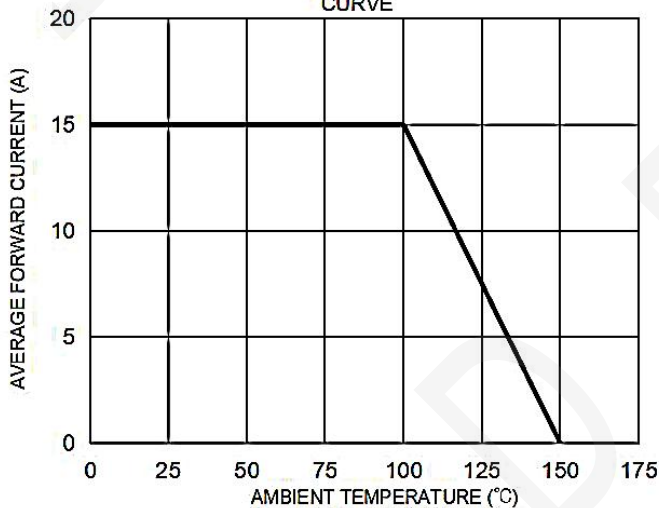
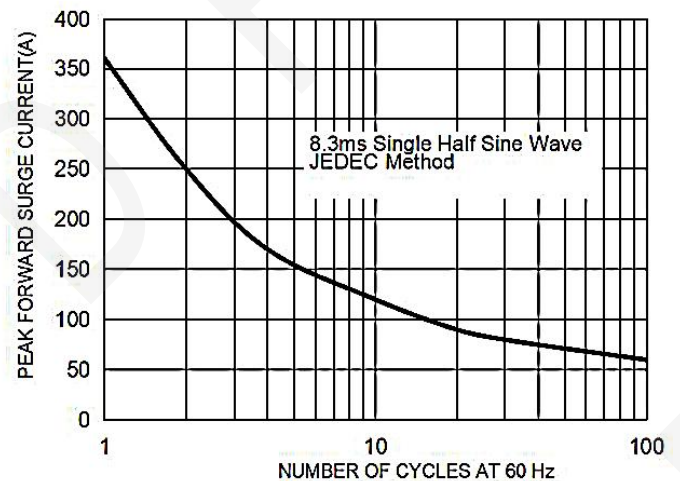
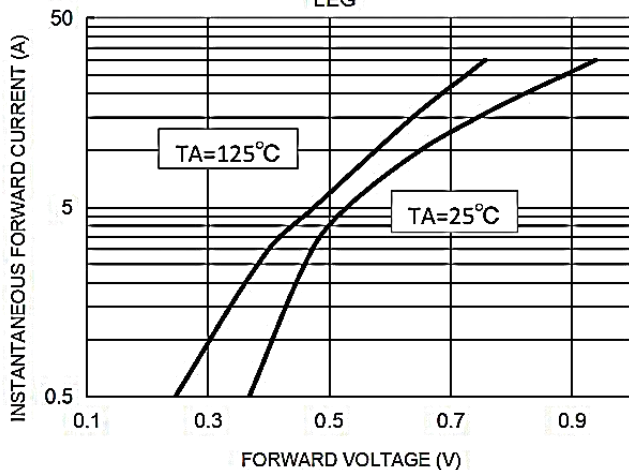
Symbol	Parameter	VALUE	Unit
V_{RRM}	Peak repetitive reverse voltage	65	V
V_{RWM}	Working peak reverse voltage		
V_R	DC blocking voltage		
$V_{R(RMS)}$	RMS reverse voltage	45.5	V
I_o	Average rectified output current	30 (15*2)	A
I_{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)	200*2	A
$R_{\theta Jc}$	Thermal resistance from junction to case ,Tc=25°C	2	°C/W
$R_{\theta JA}$	l resistance from junction to ambient	110	°C/W
T_j	Junction temperature	150	°C
T_{stg}	Storage temperature	-55~+150	°C

Notes: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

ELECTRICAL CHARACTERISTICS (TA=25°C, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	V _(BR)	I _R =0.1mA	65			V
Reverse current	I _R	V _R =65V	T _j =25°C	5.0	100	uA
			T _j =125°C	5.0		mA
Forward voltage	V _F	I _F =10A	T _j =25°C	0.70	0.75	V
			T _j =125°C	0.58		V
		I _F =15A	T _j =25°C	0.5	0.85	V
			T _j =125°C	0.65		V

*Pulse test: pulse width ≤300μs, duty cycles ≤ 2.0%.

TYPICAL CHARACTERISTICS
FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG
