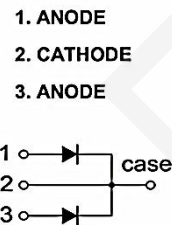
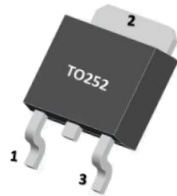


### DESCRIPTION

The MBR30150CT meet the ROHS and Green Product requirement with full function reliability approved.

### FEATURE

- \*Guard Ring Die Construction for Transient Protection
- \*Low Power Loss,High Efficiency
- \*High Current Capability and Low Forward Voltage Drop



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

Symbol	Parameter	VALUE	Unit
$V_{RRM}$	Peak repetitive reverse voltage	155	V
$V_{RWM}$	Working peak reverse voltage		
$V_R$	DC blocking voltage		
$V_{R(RMS)}$	RMS reverse voltage	105	V
$I_O$	Average rectified output current	30(15*2)	A
$I_{FSM}$	Non-Repetitive peak forward surge current (8.3ms half sine wave)	300	A
$R_{\theta Jc}$	Thermal resistance from junction to case , Tc=25°C	3.0	°C/W
$R_{\theta JA}$	Thermal resistance from junction to ambient	62.5	°C/W
$T_j$	Junction temperature	175	°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)	IR=0.1mA	155			V
Reverse current	IR	VR=150V Tj=25°C		0.45	1	μA
Forward voltage	VF	IF=5A	Tj=25°C	0.76		V
			Tj=125°C	0.6		V
		IF=15A	Tj=25°C	0.86	0.89	V
			Tj=125°C	0.78		V

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

### TYPICAL CHARACTERISTICS

