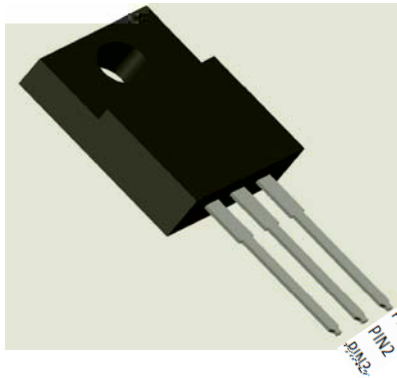


f

enhanced mechanical strength and moisture resistance

- Guard ring for enhanced rugged rating, RoHS-compliant



- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked

■Maximum Ratings (T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	MBRL30100FCT
Device marking code			MBRL30100FCT
Repetitive Peak Reverse Voltage	VRRM	V	100
Average Rectified Output Current @60Hz sine wave, R-load, T _a =25	I _O	A	30
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T _a =25	I _{FSM}	A	200
Current Squared Time @1ms≤t<8.3ms T _j =25	I ² t	A ² s	167
Storage Temperature	T _{stg}		-55 ~ +150
Junction Temperature	T _j		-55 ~ +150

■Electrical Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRL30100FCT
Maximum instantaneous forward voltage drop per diode	V _{FM}	V	I _{FM} =15.0A	0.72
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM1}	mA	V _{RM} =V _{RRM} T _a =25	0.1
	I _{RRM2}		V _{RM} =V _{RRM} T _a =100	20

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

Note2:Pulse test:pulse width 40mS



MBRL30100FCT

■ Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	MBRL30100FCT
-----------	--------	------	--------------

Thermal
Resistance

Between
junction
and case



■Outline Dimensions

ITO-220AB		
Dim	Min	Max
A	9.8	10.2
B	2.25	2.75
C	2.95	3.45
D	14.75	15.25
E	3.05	3.95
F	0.45	0.75
G	0.45	0.75
H	13.4	14.2

MBRL30100FCT