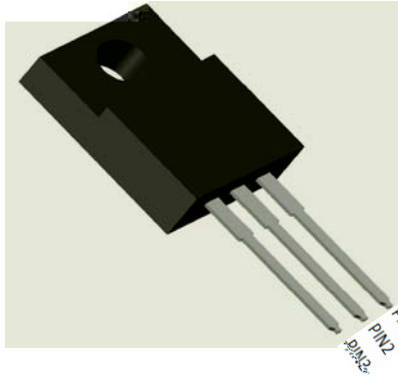




enhanced mechanical strength and moisture resistance

- 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 (Ta=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, Ta=25	IO	A	30
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25	IFSM	A	200
Current Squared Time @1ms≤t<8.3ms Tj=25	I ² t	A ² s	167
Storage Temperature	Tstg		-55 ~ +150
Junction Temperature	Tj		-55 ~ +150

Electrical Characteristics Ta=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRL30100FCT
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=15.0A	0.72
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM1}	mA	VRM=VRRM Ta=25	0.1
	I _{RRM2}		VRM=VRRM Ta=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
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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