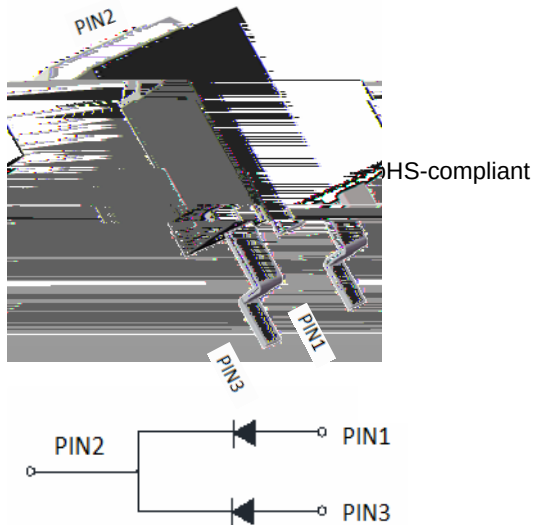


Schottky Diodes

Features

- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Meets MSL level 1, per J-STD-020, LF m] n 2



- **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	MBRB3045CTS
Device marking code			MBRB3045CTS
Repetitive Peak Reverse Voltage	V_{RRM}	V	45
Average Rectified Output Current @60Hz sine wave, R-load, $T_c=111$	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^2t	A ² s	166
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	MBRB3045CTS
Maximum instantaneous forward voltage drop per diode	V_{FM}	V	$I_{FM}=15.0A$	0.65

Maximum DC reverse current at rated
Y Note1:Pulse test:300uS pulse width,1% duty cycle

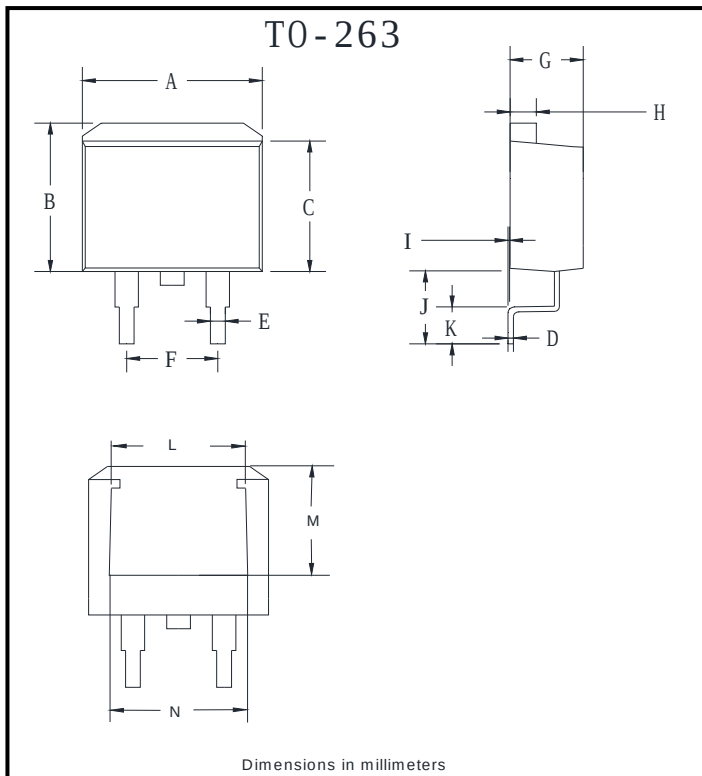
Note2:Pulse test:pulse width 40mS

MBRB3045CTS



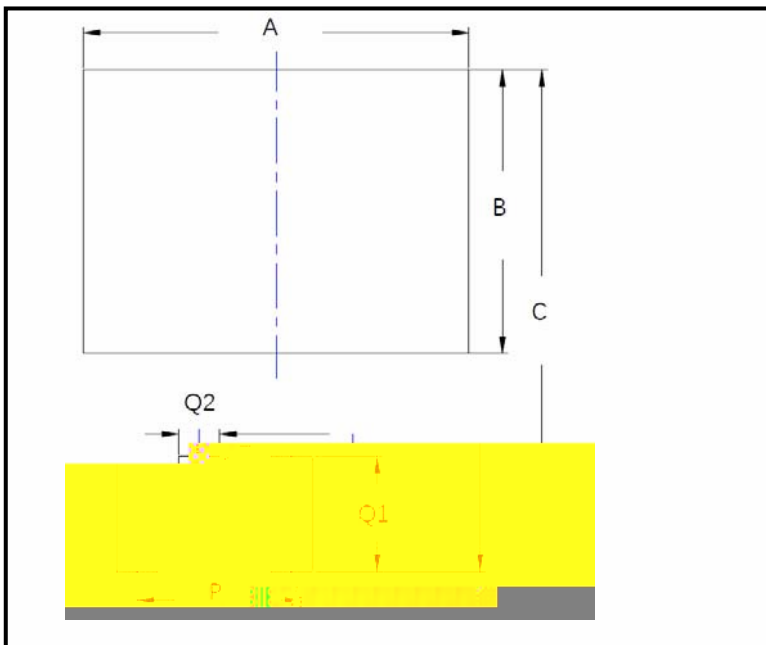
MBRB3045CTS

■Outline Dimensions



T0-263		
Dim	Min	Max
A	9.5	11.5
B	9.7	10.5
C	8.4	9.0
D	0.28	0.64
E	0.68	0.94
F	4.55	5.6
G	4.04	5.10
H	1.14	1.4
I	0	0.2
J	4.9	6.05
K	1.79	2.79
L	7.3	7.9
M	6.2	6.8
N	7.6	8.2

■Suggested Pad Layout



Dim	Millimeters
A	12.7
B	9.4
C	16.6
P	5.08
Q1	3.8
Q2	1.35



Disclaimer

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