

FEATURES

High current	capability
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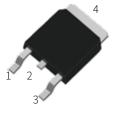
| Low forward voltage drop

Low power loss, high efficiency

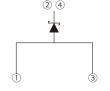
High surge capability

High temperature soldering guaranteed

I Mounting position: any



TO-252



APPROVALS

RoHS	Compliance with 2011/65/EU	
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Compliance with IEC61249-2-21:2003

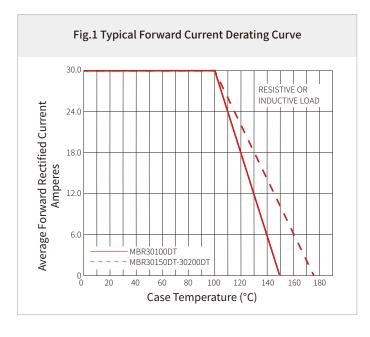
Schematic Symbol

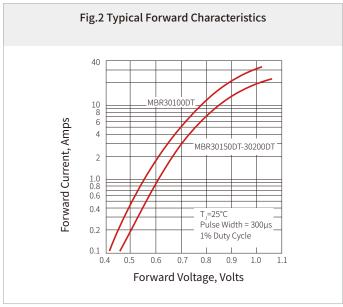
MAXIMUM RATINGS ($T_A = 25$ °C)

Parameter		Symbol	MBR30100DT	MBR30150DT	MBR30200DT	Unit
Maximum repetitive peak reverse voltage		$V_{_{RRM}}$	100	150	200	V
Maximum RMS voltage		V _{RMS}	70 105 140		140	V
Maximum DC blocking voltage	Maximum DC blocking voltage		100 150		200	V
Maximum average forward rectificurrent	fied	I _{F(AV)}	30.0			А
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	150			А
Maximum forward voltage at 15.0A DC per leg		V _F	0.85	0.90	0.92	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _J =25°C	ı		0.1		mA
	T _J =125°C	- I _R	20			mA
Operating junction temperature range		Т	-55 to +150			°C
Storage temperature range		T _{STG}	-55 to +150			°C

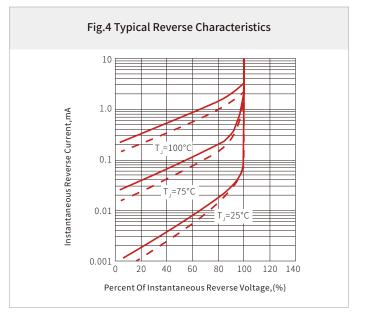


CHARACTERISTIC CURVES





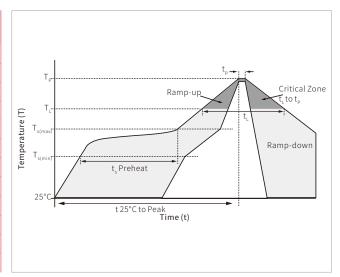




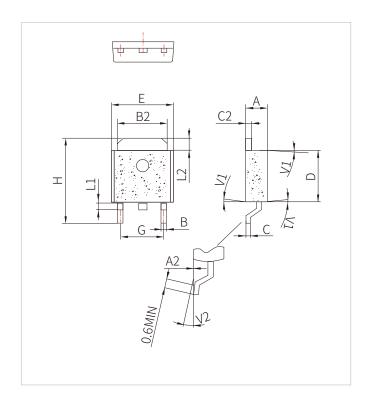


SOLDERING PARAMETERS

	Lead-free assembly			
Pre Heat	Temperature Max (T _{s(min)})	150°C		
	Temperature Max (T _{s(max)})	200°C		
	Time (min to max) (t_s)	60 – 180 secs		
Average ran	Average ramp up rate (Liquidus Temp (T _L) to peak			
	3°C/second max			
Reflow	Temperature (T _L) (Liquidus)	217°C		
	Time (min to max) (t_L)	60 – 150 seconds		
Peak Temp	260°C			
Time within	20 – 40 seconds			
Ramp-dow	6°C/second max			
Time 25°C t	8 minutes max.			
Do not exce	260°C			



TO-252 PACKAGE MECHANICAL DATA



	Dimensions					
Ref.	N	//////////////////////////////////////	rs	Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
А	2.10		2.50	0.083		0.098
A2	0.03		0.23	0.001		0.009
В	0.55		0.65	0.022		0.026
B2	5.10		5.40	0.200		0.213
С	0.45		0.62	0.018		0.024
C2	0.48		0.62	0.019		0.024
D	6.00		6.20	0.236		0.244
Е	6.40		6.80	0.252		0.268
G	4.40		4.70	0.173	0.1	0.185
Н	9.35		10.7	0.368		0.421
L1	1.30		1.70	0.051	0.143	0.067
L2	1.37		1.50	0.054		0.059
L1		4°			0.130	
V2	0°		8°	0°		8°



Schottky Barrier Rectifier

ORDERING INFORMATION

Part Number	Component Package	Marking	QTY/Reel	Reel Size
MBR30100DT	TO-252	▼ MBR30100DT XXXX	2500PCS	13"
MBR30150DT	TO-252	▼ MBR30150DT XXXX	2500PCS	13"
MBR30200DT	TO-252	✓ MBR30200DT XXXX	2500PCS	13"



MBR30100DT-MBR30200DT

Schottky Barrier Rectifier

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By QR Code





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