



Product data sheet

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FEATURES

- · Low forward voltage
- High current capability
- High forward surge capability
- Low power losses, High efficiency
- Guarding for over voltage protection

APPLICATIONS

Low VF Schottky barrier rectifier are designed for high freqency, miniature switched mode power supplies such as adapters, lighting and on-board DC/DC conerters

Primary Characteristic		
lo	2*5A	
V _{RRM}	150V	
I _{FSM}	190A	
VF	0.68V	
Tյmax	150 ℃	
Assembly code	AG	

MECHANICAL DATA

- Case: Molded plastic
- Polarity: As marked
- Mounting Position: Any
- Molded Plastic: UL Flammability Classification Rating 94V-0
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Solder bath temperature 275 $^\circ\!\!\mathbb{C}$ maximum,10s per JESD 22-B106

Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified

Characteristics		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	150	V
Working Peak Reverse Voltage		V _{RWM}	150	V
Maximum DC Blocking Voltage		V _{DC}	150	V
Maximum Avenage Ferryard Destified Comment	Per Leg		5	•
Maximum Average Forward Rectified Current	Total	lo lo	10	— A
Peak Forward Surge Current,8.3 ms Single Half Sine-wave		I _{FSM}	190	A
Operating Temperature Range		TJ	150	°C
Storage Temperature Range		T _{STG}	-40 to +150	°C
TypicalThermalResistance(Note1)				
TO-220AB,TO-263,TO-252		R _{0 IC}		°C/W
TO-220F			4	

Note1: Thermal resistance from Junction to case per leg mounted

Electrical Characteristics (Per	⁻ Leg) unless (otherwise s	pecified		
Characteristics		Symbol	Va	lue	Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
	TA=25°C	1 Г	0.73	-	
at I⊧=2A	TA=125°C	1 [0.59	-	
-++ 04	TA=25°C	V _F	0.76	-	V
at I⊧=3A	TA=125°C	1 [0.63	-	
at I⊧=5A	TA=25°C	1 [0.80	0.87	
	TA=125°C	1 [0.68	-	
Maximum Reverse Current at V_R =150V	TA=25°C		1	5	μA
	TA=125°C		0.6	-	mA

Note2:Pulse test: 300 µs pulse width, 1 % duty cycle



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SCHOTTKY BARRIER RECTIFIER



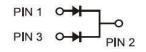
TO-220AB/CT



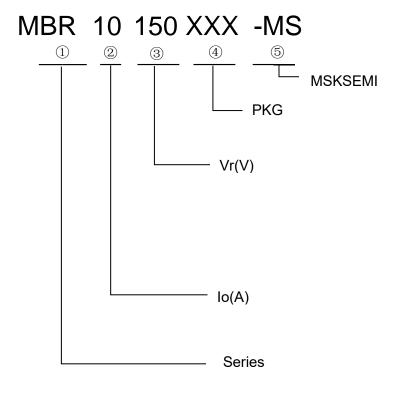
TO-263/DC



TO-252/CS



P/N Information

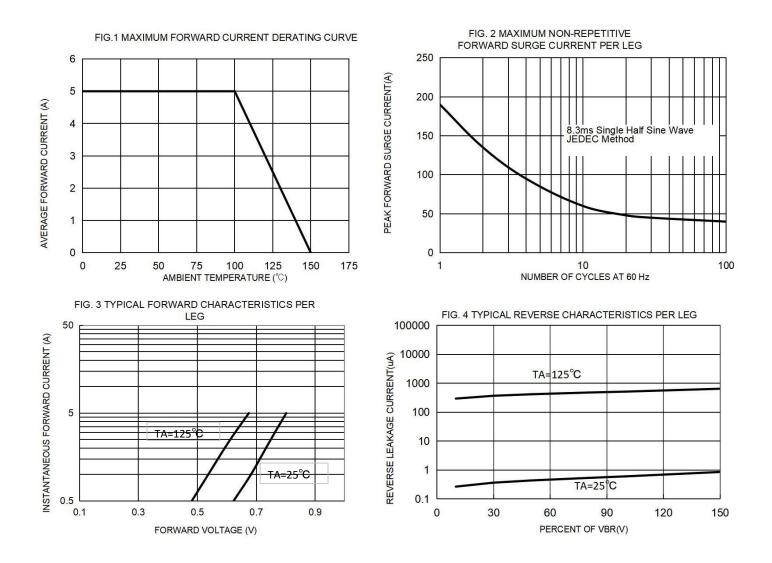


1	2	3	(4)	(5)
系列	平均整流电流	直流反向耐压	封装	MSKSEMI



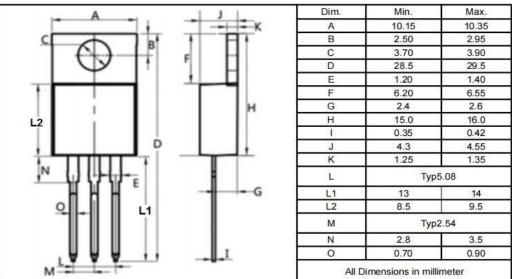
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RATINGS AND CHARACTERISTICCURVES





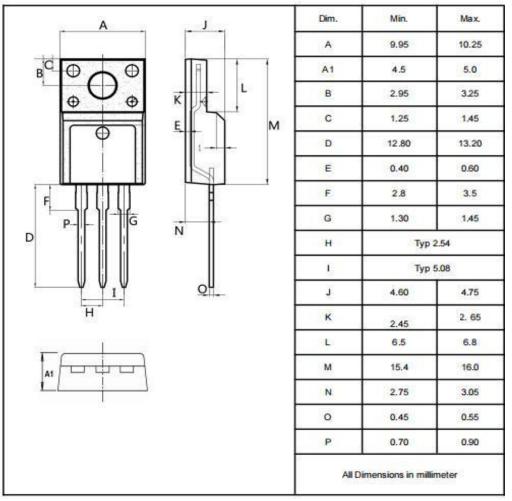
TO-220AB



P/N	PKG	QTY
MBR10150CT-MS	TO-220AB	50pcs/tube 1000pcs/box

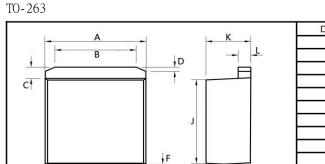


TO-220F



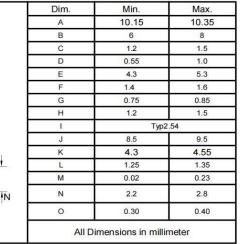
P/N	PKG	QTY
MBR10150FCT-MS	TO-220F	50pcs/tube 1000pcs/box





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REEL SPECIFICATION

P/N	PKG	QTY
MBR10150DC-MS	TO-263	50pcs/tube 1000pcs/box

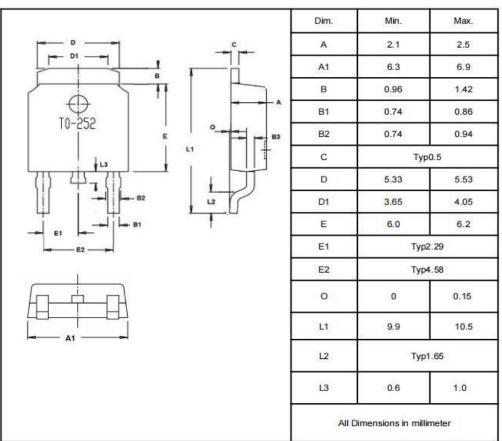
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P/N	PKG	QTY
MBR10150DC-R-MS	TO-263	800pcs



TO-252



P/N	PKG	QTY
MBR10150CS-MS	TO-252	2500



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