

# Product data sheet

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#### **FEATURES**

- Low forward voltage
- High current capability
- High forward surgecapability
- 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

# Io 2\*10A V<sub>RRM</sub> 200V I<sub>FSM</sub> 250A V<sub>F</sub> 0.76V TJmax 150 °C

Assembly code

#### **MECHANICAL DATA**

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

Maximum Ratings (Per Leg) a	t Ta=25°C unles	s otherwise	specified	
Characteristics		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage		V <sub>RRM</sub>	200	V
Working Peak Reverse Voltage		V <sub>RWM</sub>	200	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	200	V
Maximum Average Forward Rectified	Per Leg		10	^
Current	Total	lo lo	20	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I <sub>FSM</sub>	250	А
Operating Temperature Range		TJ	150	°C
Storage Temperature Range		T <sub>STG</sub>	-40 to +150	°C
TypicalThermalResistance(Note1)				
TO-220AB,TO-263,TO-252		R <sub>θ IC</sub>	2	°C/W
TO-220F			4	

Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

<b>Electrical Characteristics</b>	(Per Leg) ur	nless othe	rwise specified		
Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I⊧=3A	TA=25°C	VF	0.76	-	
	TA=125°C		0.63	-	1
	TA=25°C		0.80	-	V
at I <sub>F</sub> =5A	TA=125°C		0.68	-	1
at I <sub>F</sub> =10A	TA=25°C		0.87	0.92	1
	TA=125°C		0.76	-	
Maximum Reverse Current at $V_R$ =200V	TA=25°C	- I <sub>R</sub>	1	10	μA
	TA=125°C		1	-	mA

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



#### SCHOTTKY BARRIER RECTIFIER



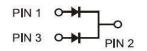
TO-220AB/CT



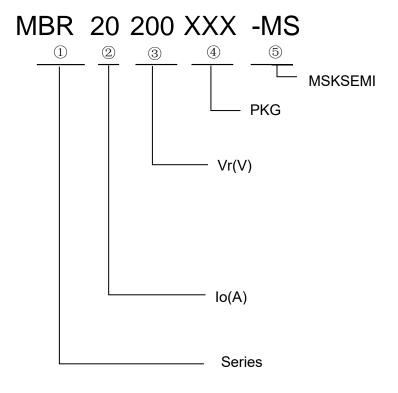
TO-263/DC



TO-252/CS



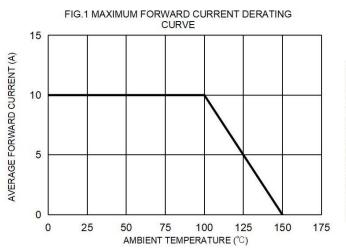
#### **P/N Information**



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







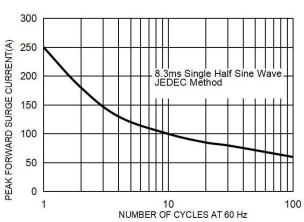
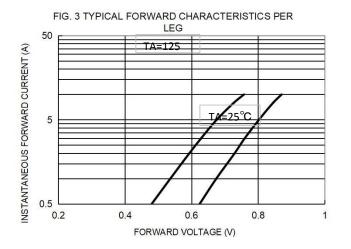
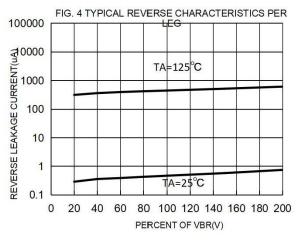


FIG. 2 MAXIMUM NON-REPETITIVE

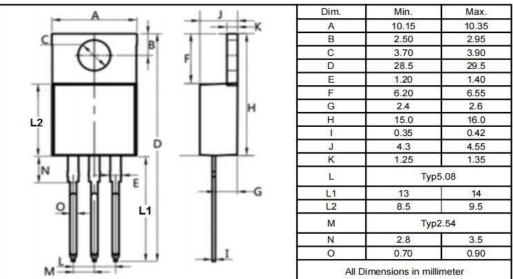
FORWARD SURGE CURRENT PER LEG







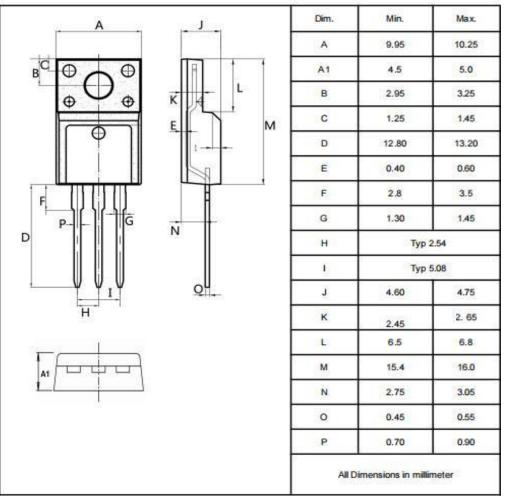
TO-220AB



P/N	PKG	QTY
MBR20200CT-MS	TO-220AB	50pcs/tube 1000pcs/box

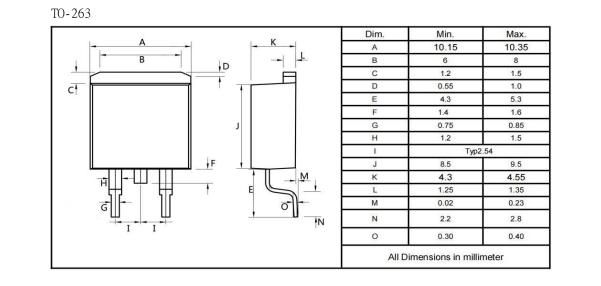


TO-220F



P/N	PKG	QTY
MBR20200FCT-MS	TO-220F	50pcs/tube 1000pcs/box





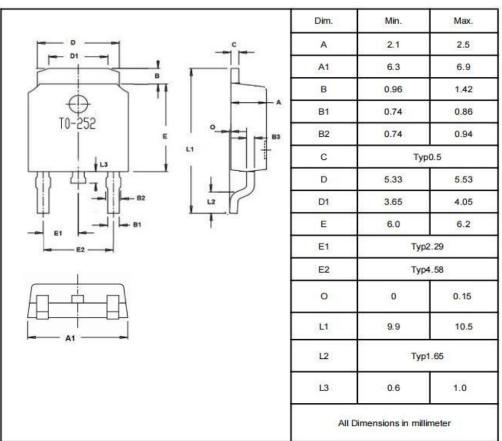
#### **REEL SPECIFICATION**

P/N	PKG	QTY
MBR20200DC-MS	TO-263	50pcs/tube 1000pcs/box

P/N	PKG	QTY
MBR20200DC-R-MS	TO-263	800pcs



TO-252



P/N	PKG	QTY
MBR20200CS-MS	TO-252	2500



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