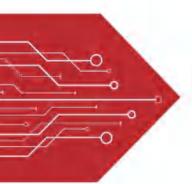
# MSKSEMI















**ESD** 

TVS

TSS

MOV

**GDT** 

PLED

# Product data sheet



## **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	
$V_{RRM}$	200V	
I <sub>FSM</sub>	130A	
V <sub>F</sub>	0.72V	
T₃max	150℃	
Assembly code	AE	

## **MECHANICAL DATA**

Case: Molded plasticPolarity: As markedMounting 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 °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 <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 Current	Per Leg	1.	5	А
	Total	lo	10	
Peak Forward Surge Current,8.3 ms Single Half Sine-wave		I <sub>FSM</sub>	130	Α
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>0 JC</sub>	2	°C/W
TO-220F			4	

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

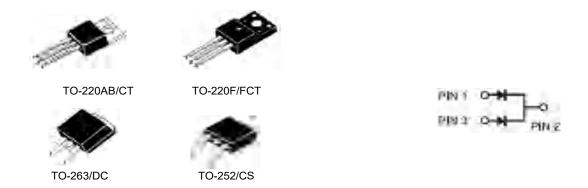
Electrical Characteristics (Per	Leg) unless of	otherwise	specified		
Characteristics		Symbol	Va	lue	Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I⊧=2A	TA=25°C		0.77	-	
at IF-ZA	TA=125°C		0.63	-	
at I⊧=3A	TA=25°C	V <sub>F</sub>	0.80	-	V
at if=3A	TA=125°C		0.67	-	
at I <sub>F</sub> =5A	TA=25°C		0.85	0.92	
	TA=125°C		0.72	-	
Maximum Reverse Current at V <sub>R</sub> =200V	TA=25°C	1_	1	5	μΑ
	TA=125°C	IR	0.5	-	mA

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



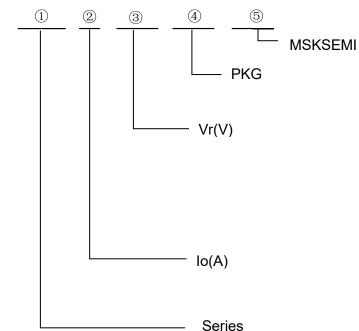
#### Semiconductor Co

## SCHOTTKY BARRIER RECTIFIER



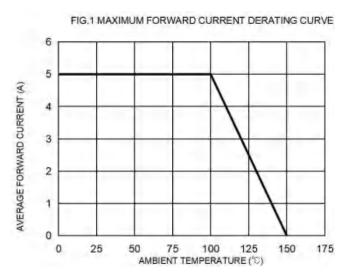
## P/N Information

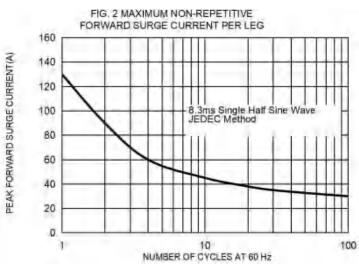
# MBR 10 200 XXX -MS

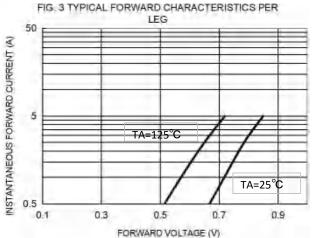


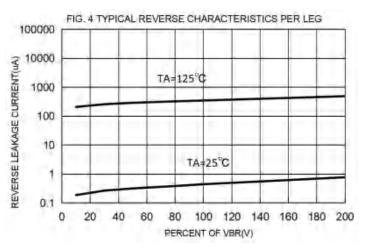
1)	2	3	4	(5)
系列	平均整流电流	直流反向耐压	封装	MSKSEMI

## RATINGS AND CHARACTERISTIC CURVES

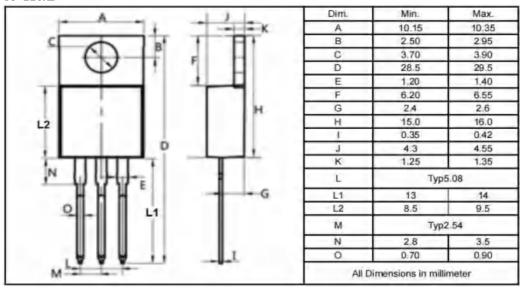






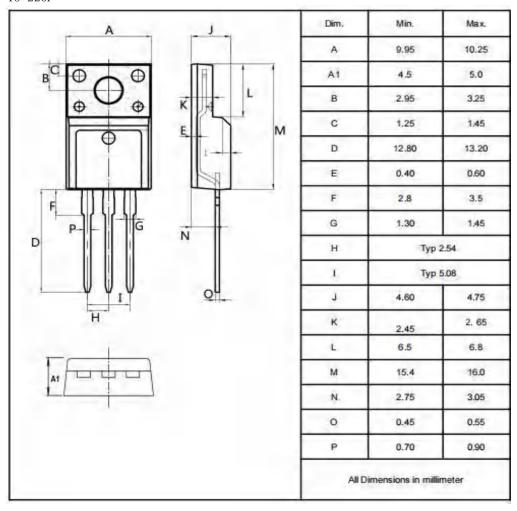


TO-220AB



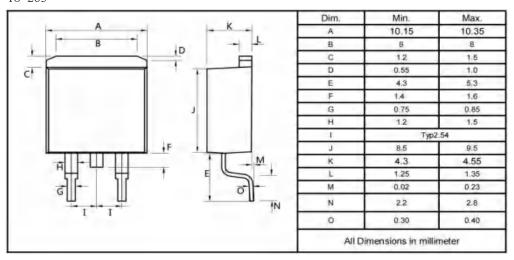
P/N	PKG	QTY
MBR10200CT-MS	TO-220AB	50pcs/tube 1000pcs/box

TO-220F



P/N	PKG	QTY
MBR10200FCT-MS	TO-220F	50pcs/tube 1000pcs/box

TO-263

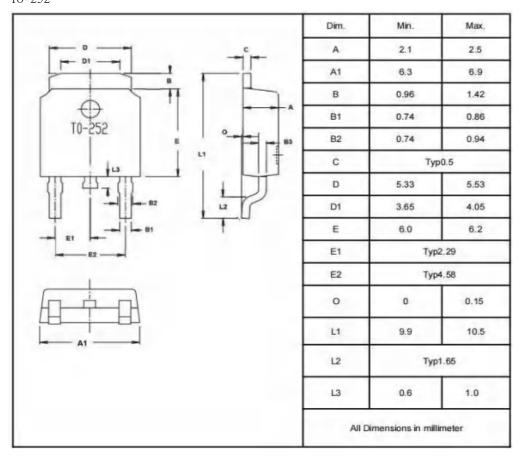


## **REEL SPECIFICATION**

P/N	PKG	QTY
MBR10200DC-MS	TO-263	50pcs/tube 1000pcs/box

P/N	PKG	QTY
MBR10200DC-R-MS	TO-263	800pcs

TO-252



P/N	PKG	QTY
MBR10200CS-MS	TO-252	2500



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