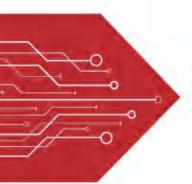
# MSKSEMI















**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 frequency, miniature switched mode power supplies such as adapters, lighting and on-board DC/DC conerters

Primary Characteristic		
lo	2*10A	
$V_{RRM}$	60V	
I <sub>FSM</sub>	300A	
V <sub>F</sub>	0.63V	
T₃max	150℃	
Assembly code	AJ	

### **MECHANICAL DATA**

• Case: Molded plastic • Polarity: As marked • Mounting Position: Any

• Molded Plastic: ULFlammability Classification Rating 94V-0 • Lead free in compliance with EU RoHS 2011/65/EU directive

Maximum Ratings (Per Leg) a	t Ta=25°C ι	ınless otherw	vise specified	
Characteristics		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage		V <sub>RRM</sub>	60	V
Working Peak Reverse Voltage		V <sub>RWM</sub>	60	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	60	V
Maximum Average Forward Rectified Current	Per Leg	1.	10	٨
	Total	- Io -	20	Α
Peak Forward Surge Current,8.3 ms Single Half Sine-wave		I <sub>FSM</sub>	300	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	

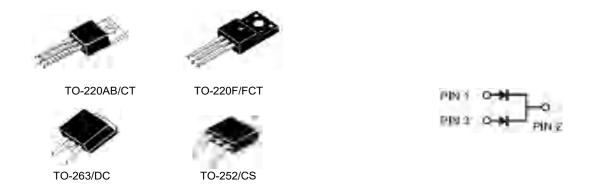
Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

Electrical Characteristics (Per	Leg) unless of	otherwise s	specified		
Characteristics		Symbol	Va	lue	Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at 1 = 2 A	TA=25°C		0.51	-	
at I <sub>F</sub> =3A	TA=125°C		0.45	-	
	TA=25°C	V <sub>F</sub>	0.59	-	V
at I <sub>F</sub> =5A	TA=125°C		0.53	-	
-+1 -40A	TA=25°C	1	0.72	0.78	
at I <sub>F</sub> =10A	TA=125°C	1 [	0.63	-	
Maximum Reverse Current at V <sub>R</sub> =60V	TA=25°C		3	50	μΑ
	TA=125°C	I <sub>R</sub>	2	-	mA

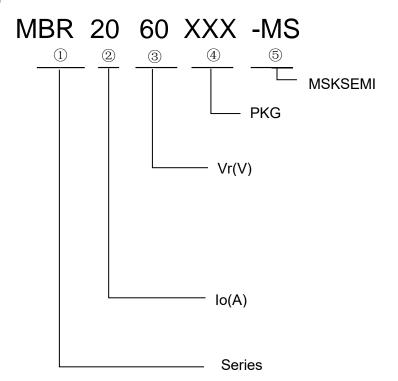
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle



# SCHOTTKY BARRIER RECTIFIER



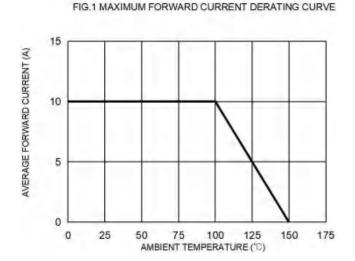
## P/N Information

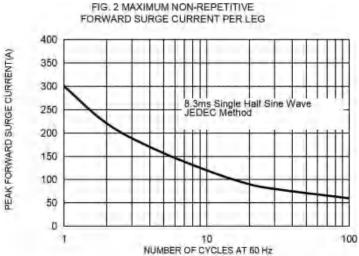


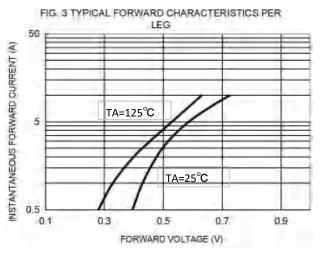
1)	2	3	4	5
系列	平均整流电流	直流反向耐压	封装	MSKSEMI

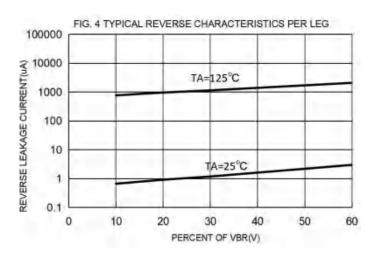


### RATINGS AND CHARACTERISTIC CURVES

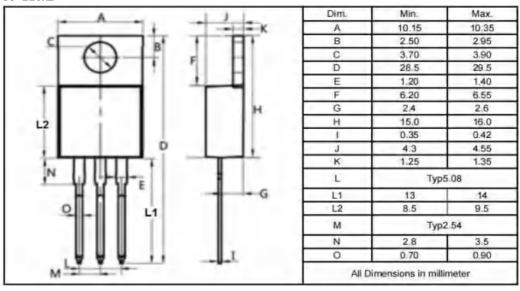








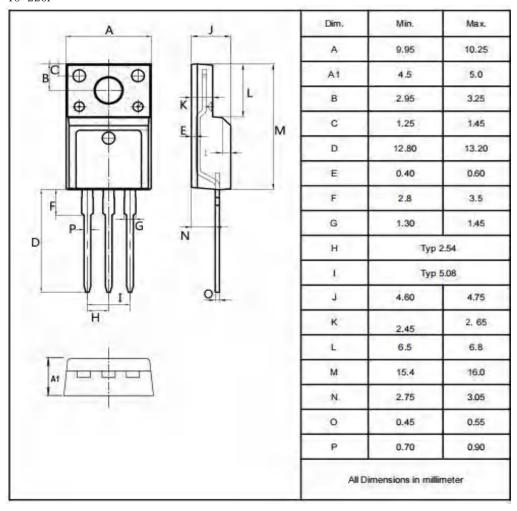
TO-220AB



P/N	PKG	QTY
MBR2060CT-MS	TO-220AB	50pcs/tube 1000pcs/box

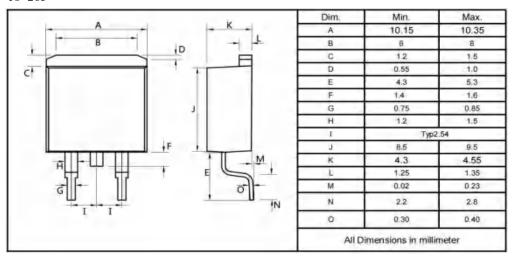


TO-220F



P/N	PKG	QTY
MBR2060FCT-MS	TO-220F	50pcs/tube 1000pcs/box

TO-263

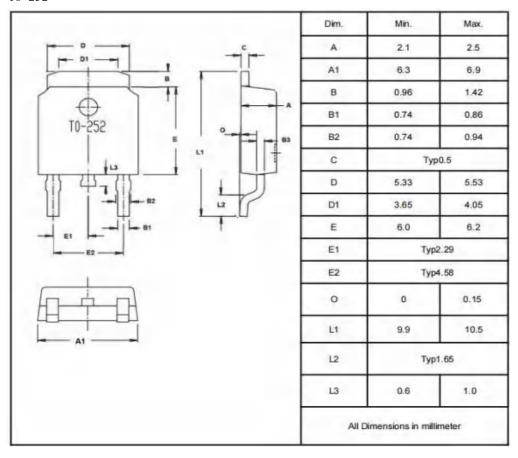


## **REEL SPECIFICATION**

P/N	PKG	QTY
MBR2060DC-MS	TO-263	50pcs/tube 1000pcs/box

P/N	PKG	QTY
MBR2060DC-R-MS	TO-263	800pcs

TO-252



P/N	PKG	QTY
MBR2060CS-MS	TO-252	2500



Semiconductor Compiance

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