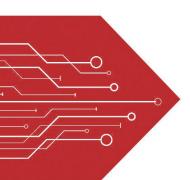
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Brodnet data speet

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

Primary Characteristic		
lo	2*10A	
V_{RRM}	100V	
I _{FSM}	250A	
V _F	0.68V	
T₃max	150℃	
Assembly code	AL	

MECHANICAL DATA

Case: Molded plasticPolarity: As markedMounting Position: Any

• **Molded Plastic:** ULFlammabilityClassificationRating 94V-0 • Lead free in compliance with EURoHS 2011/65/EU directive

 \bullet 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}	100	V
Working Peak Reverse Voltage		V _{RWM}	100	V
Maximum DC Blocking Voltage		V _{DC}	100	V
Maximum Average Forward Rectified Current	Per Leg	L	10	۸
	Total	lo l	20	— A
Peak Forward Surge Current,8.3 ms Single Ha	If Sine-wave	I _{FSM}	250	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 _{e IC}	2	°C/W
TO-220F			4	
Note1: Thermal resistance from Junction to case per leg mounted on heatsink.				

Electrical Characteristics (Per Leg) unless otherwise specified Symbol Characteristics Value Unit Forward Voltage Drop(Note2) Тур. Max. TA=25°C 0.69 at I_F=3A TA=125°C 0.60 TA=25°C 0.74 V_F at I_F=5A TA=125°C 0.61 TA=25°C 0.82 0.85 at I_F=10A TA=125°C 0.68

 I_{R}

1.5

1

10

TA=25°C

TA=125°C

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

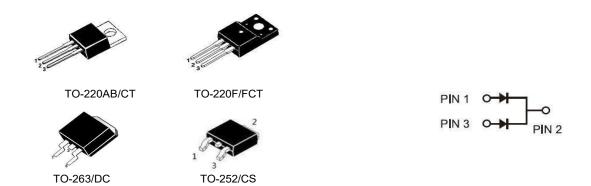
Maximum Reverse Current at V_R=100V

μĀ

mΑ

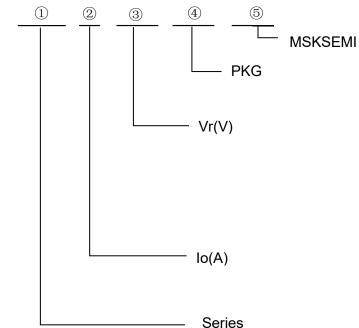


SCHOTTKY BARRIER RECTIFIER



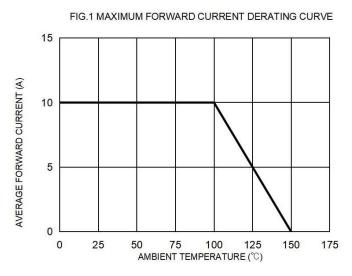
P/N Information

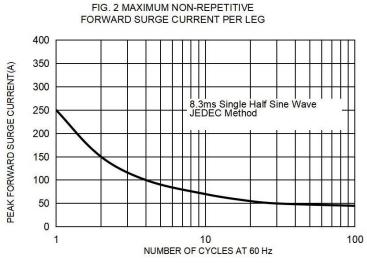
MBR 20 100 XXX -MS

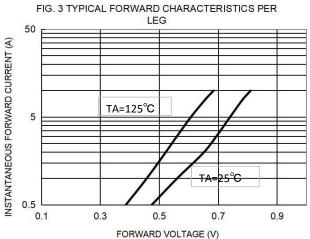


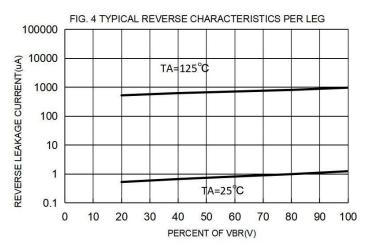
1)	2	3	4	(5)
系列	平均整流电流	直流反向耐压	封装	MSKSEMI

RATINGS AND CHARACTERISTIC CURVES

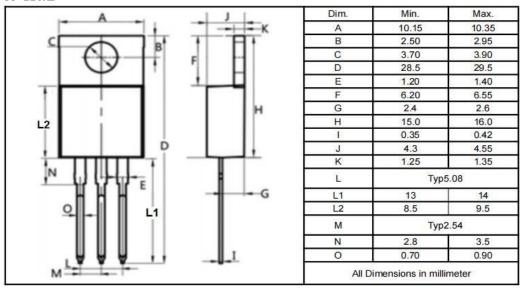






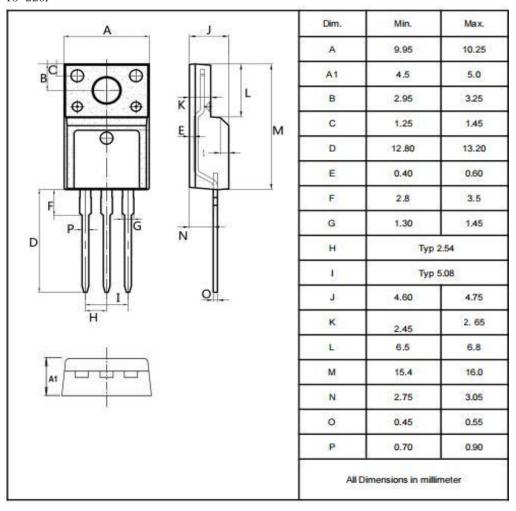


TO-220AB



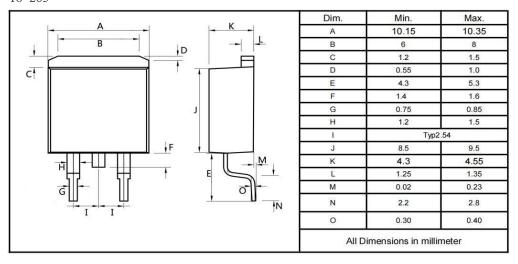
P/N	PKG	QTY
MBR20100CT-MS	TO-220AB	50pcs/tube 1000pcs/box

TO-220F



P/N	PKG	QTY
MBR20100FCT-MS	TO-220F	50pcs/tube 1000pcs/box

TO-263

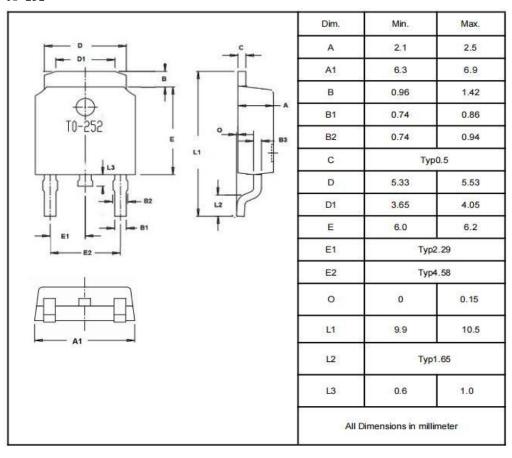


REEL SPECIFICATION

P/N	PKG	QTY
MBR20100DC-MS	TO-263	50pcs/tube 1000pcs/box

P/N	PKG	QTY
MBR20100DC-R-MS	TO-263	800pcs

TO-252



P/N	PKG	QTY
MBR20100CS-MS	TO-252	2500



Semiconductor

Compiance

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