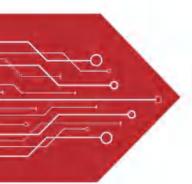
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Product data sheet



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

MECHANICAL DATA

Case: Molded plasticPolarity: As markedMounting Position: Any

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

Primary Characteristic	
lo	2*10A
V_{RRM}	45V
I _{FSM}	260A
V _F	0.49V
T₃max	150℃
Assembly code	AA

Maximum Ratings (Per Leg) a	t Ta=25°C ι	unless otherwis	e specified	
Characteristics		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	45	V
Working Peak Reverse Voltage		V _{RWM}	45	V
Maximum DC Blocking Voltage		V _{DC}	45	V
Mariana Arana Farana Bartifa I O	Per Leg		10	
Maximum Average Forward Rectified Current	Total	lo lo	20	— A
Peak Forward Surge Current, 8.3 ms Single Ha	If Sine-wave	I _{FSM}	260	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	se per leg mounte	d on heatsink.		1

Electrical Characteristics (Pe	er Leg) unless	otherwise s	specified		
Characteristics	3	Symbol	Va	lue	Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I _F =3A	TA=25°C		0.42	-	
	TA=125°C		0.34	-	
at I _F =5A	TA=25°C	V _F	0.46	-	V
	TA=125°C		0.41	-	
at I _F =10A	TA=25°C		0.56	0.60	
	TA=125°C	7 [0.49	-	1
Maximum Reverse Current at V _R =45V	TA=25°C		40	100	μΑ
	TA=125°C	I _R	12	-	mA

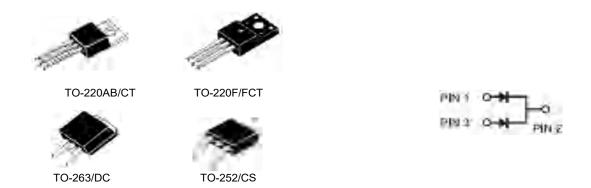
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle



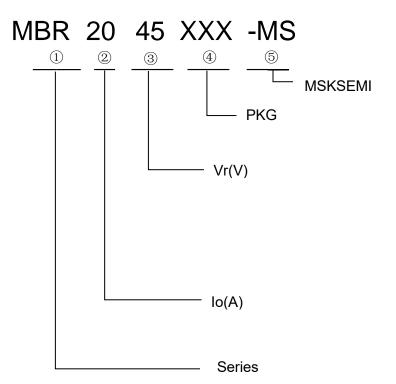




SCHOTTKY BARRIER RECTIFIER

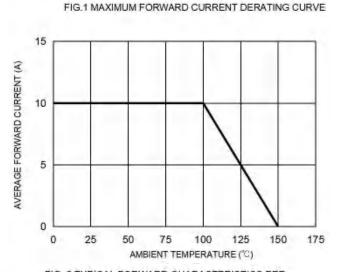


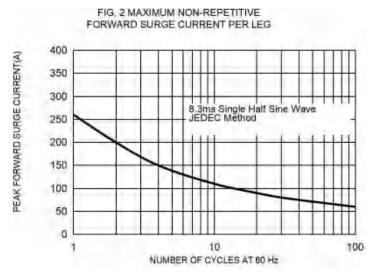
P/N Information

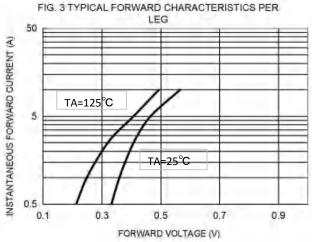


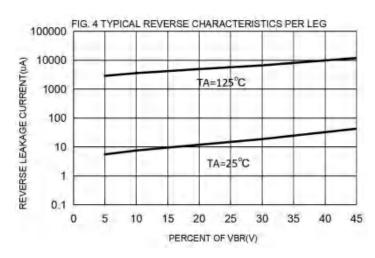
1)	2	3	4	(5)
系列	平均整流电流	直流反向耐压	封装	MSKSEMI

RATINGS AND CHARACTERISTIC CURVES

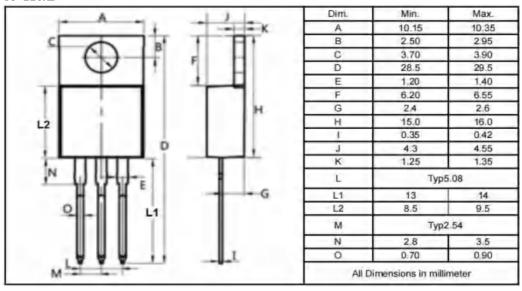






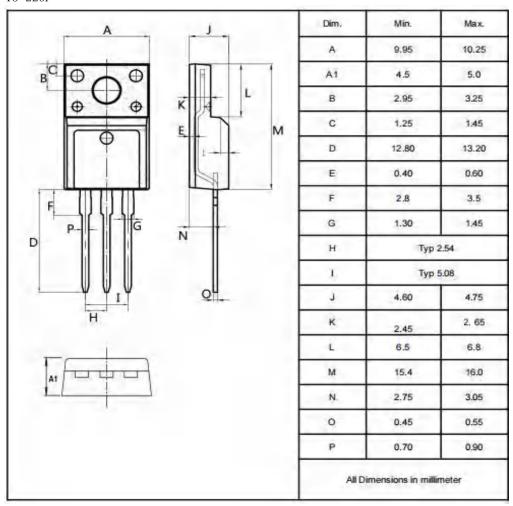


TO-220AB



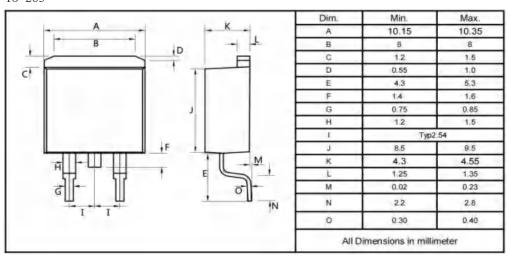
P/N	PKG	QTY
MBR2045CT-MS	TO-220AB	50pcs/tube 1000pcs/box

TO-220F



P/N	PKG	QTY
MBR2045FCT-MS	TO-220F	50pcs/tube 1000pcs/box

TO-263

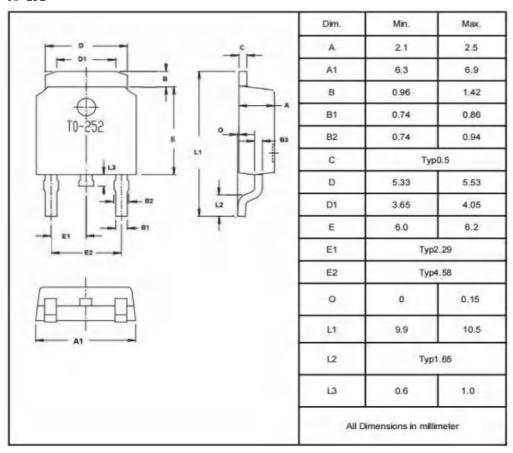


REEL SPECIFICATION

P/N	PKG	QTY
MBR2045DC-MS	TO-263	50pcs/tube 1000pcs/box

P/N	PKG	QTY
MBR2045DC-R-MS	TO-263	800pcs

TO-252



P/N	PKG	QTY
MBR2045CS-MS	TO-252	2500



Semiconductor Compiance



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