# Schottky Barrier Rectifier VRRM 150 Volts, 20A

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### Features

- Metal of silicon rectifier
- Majority used for carrier conduction
- Trench Schottky Technology
- Low power loss, high efficiency
- High current capability, low VF
- · High surge capacity
- Lead free
- Meet UL flammability classification 94V-0
- Case style: TO-263AB
- Weight: 0.08 ounces, 2.24 grams



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HEATSINK

PIN1 O

PIN 2 O-

RoHS

### **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristics	Symbol	Values	Unit	
Max. Recurrent Peak Reverse Voltage	Vrrm	150	v	
Max. RMS Voltage	Vrms	106		
Max. DC Blocking Voltage	Vdc	150		
Max. Average Forward Rectified Current (See Fig. 1)	Lano	20		
Max. Average Forward Rectified Current (Per Leg)	I(AV)	10		
Peak Forward Surge Current			A	
8.3ms Single Half Sine-Wave	IFSM	210		
Super Imposed on Rated Load				
Operating Temperature Range	TJ	-55 to +150	°C	
Storage Temperature Range	Тѕтс	-55 to +175		

### **Electrical Characteristics**

Parameter / Conditions	Symbol	Тур.	Max.	Unit
Breakdown voltage per diode	Vbr	150 (minimum)	-	
Forward voltage (Note1)				
IF=5A @ TJ=25°C		0.58	0.62	V
IF=5A @ T」=125°C	VF	0.49	0.52	
IF=10A @ T」=25°C		0.74	0.9	
IF=10A @ T」=125°C		0.56	0.6	
Maximum DC Reverse Current @ $T_J = 25^{\circ}C$	IR	210 60		μΑ
at Rated DC Blocking Voltage @TJ = 125°C				mA
Typical Junction Capacitance (Note 2)	Сл	1037		pF
Thermal Characteristics				
Thermal Resistance Per Diode (Note 3)	Rejc	3.5		°C/W

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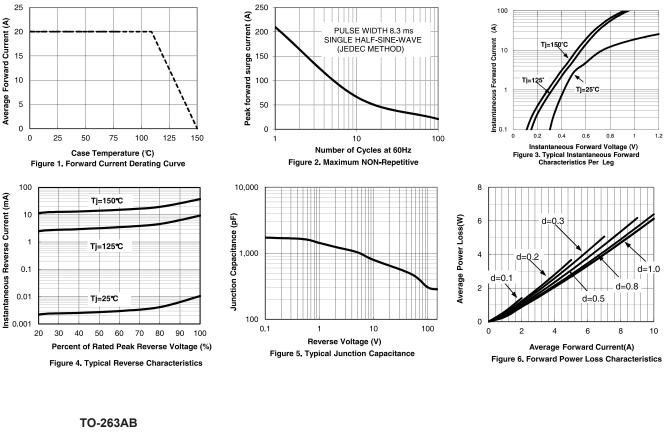
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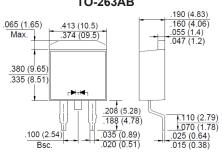
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#### Notes:

- 1. 300µs pulse width, 2% duty cycle.
- 2. Measured at 1MHz and applied reverse voltage of 5V DC.
- 3. Thermal resistance junction to case.

## **Rating and Characteristic Curves**





#### Dimensions : Inches (Millimetres)

### Part Number Table

Description	Part Number	
Schottky Rectifier, Dual, 150V, 20A, TO-263AB	MP001036	

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