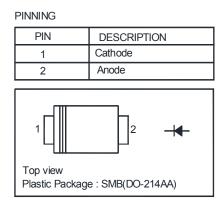
## Surface Mount Schottky Barrier Rectifier Reverse Voltage - 45 V

Forward Current - 5 A

## Features

• High forward surge current capability



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

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

Decomptor	Symbols	Value	Unit
Parameter	Marking	545	-
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	45	V
Maximum RMS voltage	V <sub>RMS</sub>	32	V
Maximum DC blocking voltage	V <sub>DC</sub>	45	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	5	А
Peak Forward Surge Current 8.3 ms Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	150	А
Maximum Instantaneous Forward Voltage at 5 A	V <sub>F</sub>	0.43	V
$\begin{array}{ll} \mbox{Maximum DC Reverse Current at Rated} & T_a = 25 \ ^{\circ}\mbox{C} \\ \mbox{DC Blocking Voltage} & T_a = 100 \ ^{\circ}\mbox{C} \end{array}$	I <sub>R</sub>	1 20	mA
Typical junction capacitance <sup>1)</sup>	CJ	800	pF
Typical Thermal Resistance from junction to ambient <sup>2)</sup>	$R_{ ext{ hetaJA}}$	37	°C/W
Junction Temperature Range	Tj	- 55 to + 125	٦°
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 150	٦°

<sup>1)</sup> Measured at 1MHz and applied reverse voltage of 4.0V D.C.

 $^{2)}$  P.C.B. mounted with 2" x 2" (5 x 5cm) copper pad areas.



### **Electrical characteristic curves**



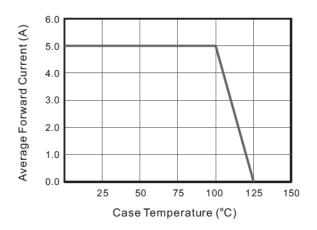
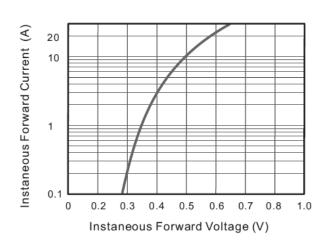


Fig.3 Typical Forward Characteristic





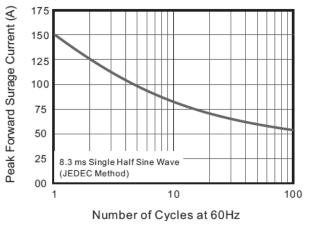


Fig.2 Typical Reverse Characteristics

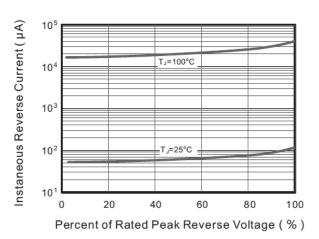
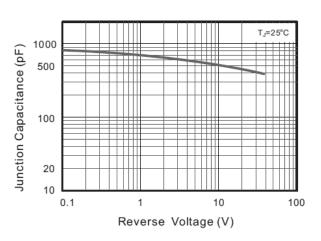
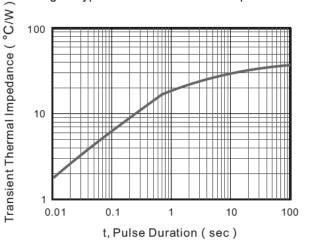


Fig.4 Typical Junction Capacitance





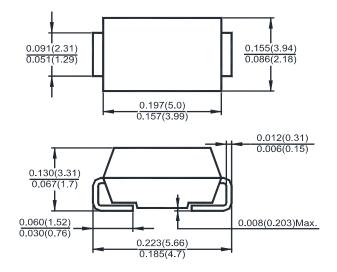




2/3

# Package Outline Dimensions in inches (millimeters)

## SMB(DO-214AA)



## Marking information

" 545 " = Part No. " III " = Cathode line Font type: Arial

	545	
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