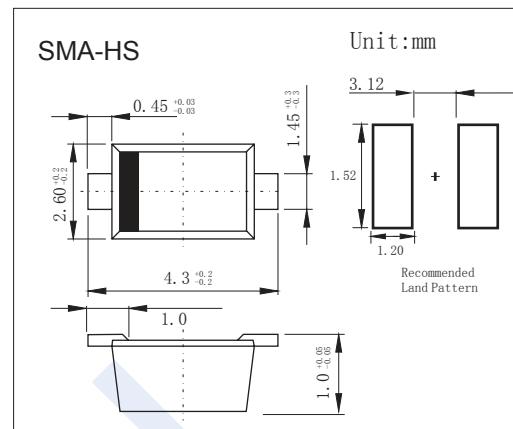


## Schottky Diodes

### VSSAF5L45

#### ■ Features

- Low Forward Voltage Drop
- Excellent High Temperature Stability
- Trench Schottky Design using 8" Advanced Technology
- Soft, Fast Switching Capability
- Low Power Loss, High Efficiency
- Lead Free Finish, RoHS Compliant
- Excellent ESD protection up to 30KV.



K o ← → A

#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Peak Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	45	V
Working Peak Reverse Voltage	V <sub>RWM</sub>		
DC Blocking Voltage	V <sub>R</sub>		
Average Forward Rectified Current	I <sub>FAV</sub>	5	A
Peak forward surge current @ 60Hz half sine-wave	I <sub>FSM</sub>	80	
Thermal Resistance Junction to Ambient	R <sub>θJA</sub>	37	°C/W
Thermal Resistance Junction to Lead	R <sub>θJC</sub>	12	
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature range	T <sub>stg</sub>	-65 to 150	

Note.1: Mounted on FR-4 PCB

#### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V <sub>(BR)</sub>	I <sub>R</sub> = 0.3 mA	45			V
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 1 A, T <sub>J</sub> = 25°C		0.32		
		I <sub>F</sub> = 5 A, T <sub>J</sub> = 25°C		0.47	0.52	
Reverse voltage leakage current	I <sub>R</sub>	V <sub>R</sub> = 45 V, T <sub>J</sub> = 25°C			0.15	mA
		V <sub>R</sub> = 45 V, T <sub>J</sub> = 125°C			45	

#### ■ Marking

Marking	*5L45
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## ■ Typical Characteristics

