

Trench Barrier Schottky Rectifier
Reverse Voltage - 150 V
Forward Current - 5 A
FEATURES

- ◆ Metal silicon junction, majority carrier conduction
- ◆ For surface mounted applications
- ◆ Low power loss, high efficiency
- ◆ High forward surge current capability
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives


Pinning

1.Cathode	2.Anode
1  2 	

DO-214AA/SMB

MECHANICAL DATA

- ◆ Case: DO-214AA/SMB
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026

Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified

Parameter	Symbols	5S150	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	150	V
Maximum Average Forward Rectified Current	I _{F(AV)}	5	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load (JEDEC method)	I _{FSM}	120	A
Typical Thermal Resistance per diode (Mounted on FR-4 PCB)	R _{θJC}	22	°C/W
Operating junction and storage temperature range	T _j , T _{stg}	-40 ~ +150	°C

Electrical Characteristics (Per Leg) unless otherwise specified

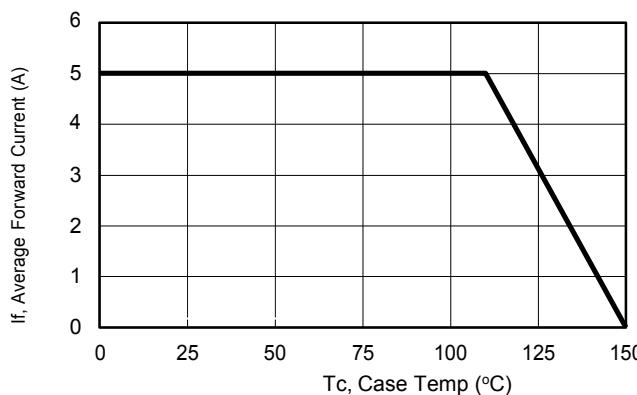
Characteristics		Symbols	Value		Units
			Typ	Max	
Forward Voltage Drop at I _F =1A Instantaneous forward voltage per diode	TA=25°C	V _F	0.53	0.60	V
	TA=125°C		0.48	-	
	TA=25°C		0.89	0.95	
	TA=125°C		0.82	-	
	TA=25°C	I _R	5	10	uA
	TA=125°C		-	5	

Notes:

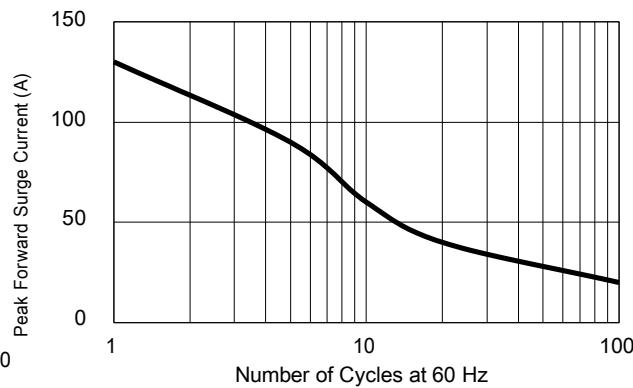
(1) Pulse test: 300 μs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms

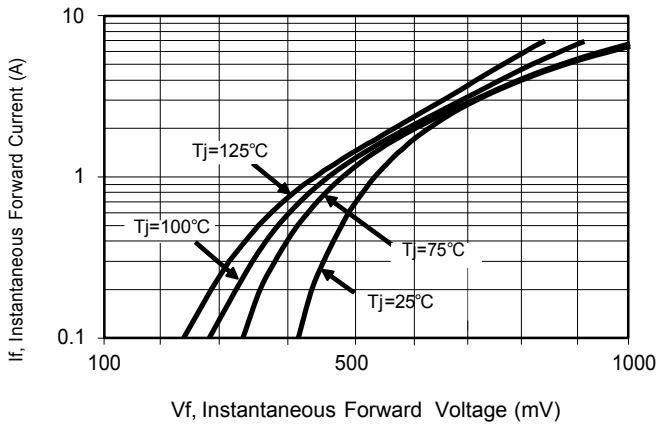
RATINGS AND CHARACTERISTICS CURVES



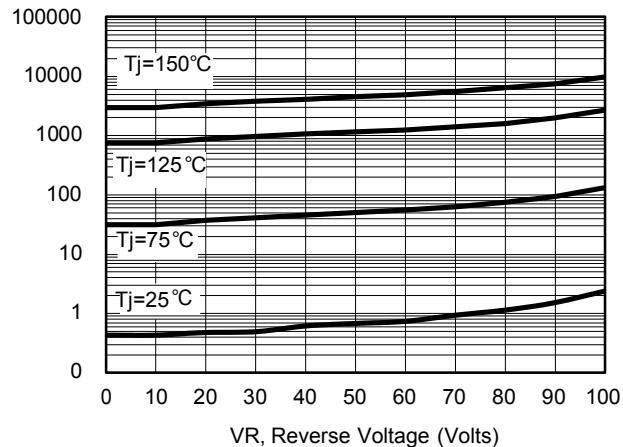
Current Derating, Case



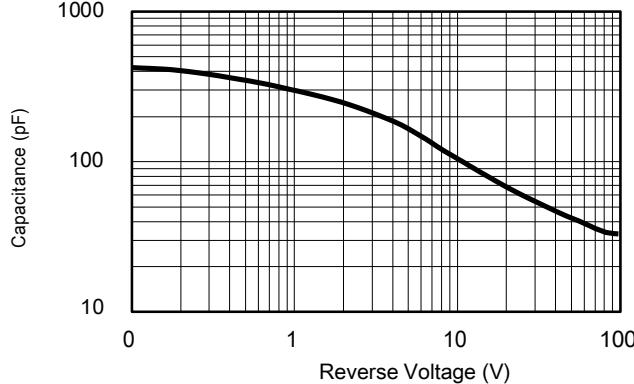
Maximum Repetitive Surge Current



Typical Forward Voltage



Typical Reverse Current

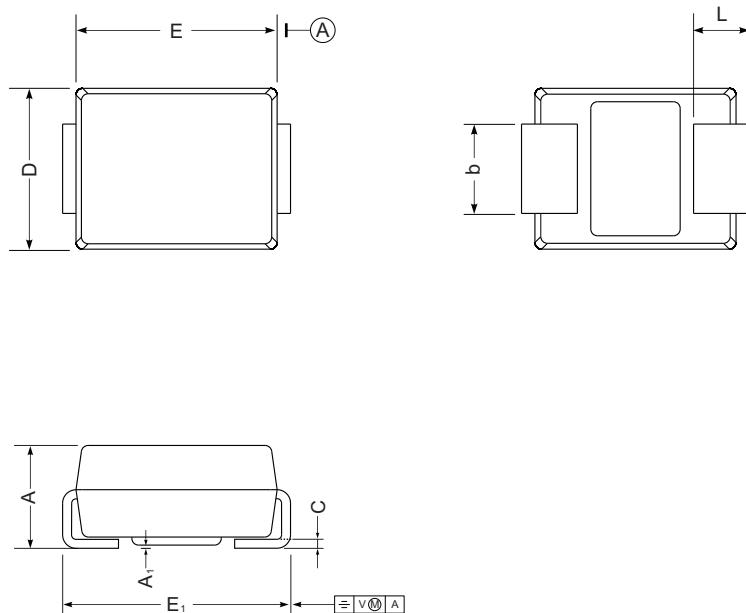


Typical Junction Capacitance

Package Outline

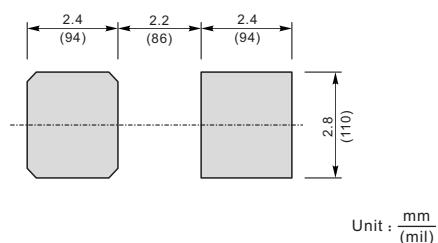
DO-214AA SMB

Plastic surface mounted package; 2leads



UNIT	A	E	D	E ₁	A ₁	L	C	b
mm	max	2.44	4.70	3.94	5.59	0.20	1.5	0.305
	min	2.13	4.06	3.3	5.08	0.05	0.8	0.152
mil	max	96	185	155	220	7.9	59	12
	min	84	160	130	200	2.0	32	6

The recommended mounting pad size



Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
DO-214AA SMB	Tape/Reel,13"reel	3000	EIA-481-1

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