

1A High Voltage Rectifier

Reverse Voltage - 1800V

Forward Current - 1 A

FEATURES

- · Construction utilizes void-free molded plastic technique
- ♦Low profile package
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension
- Lead free in comply with EU RoHS 2011/65/EU directives

Pinning



Marking Code		
R1800F	YFW R1800F	

MECHANICAL DATA

♦Case: DO-214AC/SMA

♦Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.07g / 0.002oz

Absolute Maximum Ratings and Electrical characteristics

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

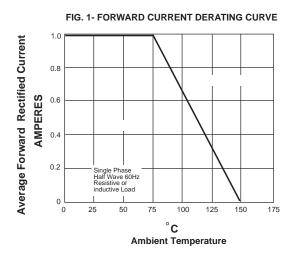
Parameter	Symbols	R1800F	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	1800	V
Maximum RMS voltage	V _{RMS}	1260	V
Maximum DC Blocking Voltage	V _{DC}	1800	V
Maximum Average Forward Rectified Current at T_c = 125 °C	I _{F(AV)}	1.0	А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	30.0	A
Maximum Instantaneous Forward Voltage at 1 A	V _F	2.5	V
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 100 ^{\circ}\text{C}$	I _R	10.0 200.0	μΑ
Maximumreverserecoverytime (1)	T _{rr}	500	ns
Typical Junction Capacitance (21)	Cj	15	pF
Typical Thermal Resistance (3)	R _{eJA}	50	°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150	°C

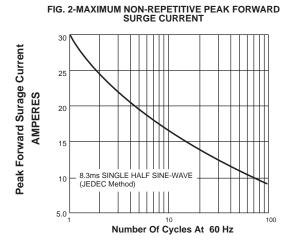
⁽¹⁾ Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

⁽²⁾ Measured at 1MHz and applied reverse voltage of 4.0V D.C.

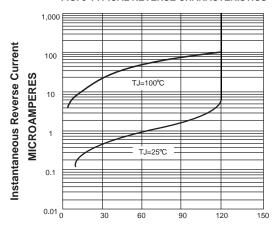
⁽³⁾ Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length, P.C.B. mounted











Percent Of Peak Reverse Voltage



Marking Diagram

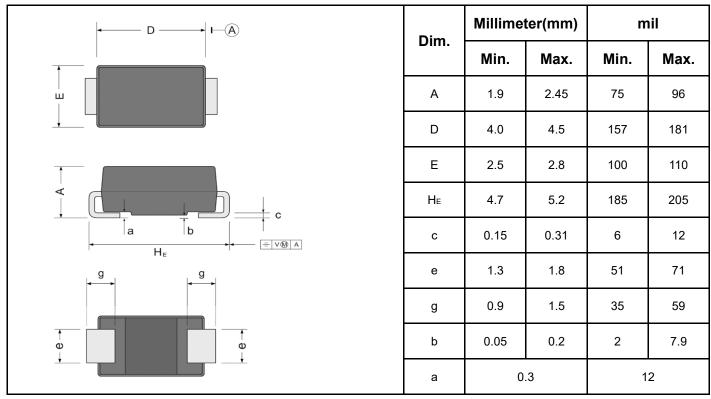


Ordering information

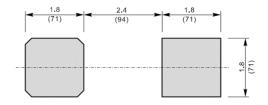
Package	Packing Description	Packing Quantity
DO-214AC SMA	Tape/Reel,13"reel	5000PCS/Reel 50000PCS/Carton

Package Dimensions

DO-214AC SMA



The recommended mounting pad size



 $\mathsf{Unit}: \frac{\mathsf{mm}}{(\mathsf{mil})}$



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