



Surface Mount Fast Recovery Rectifiers

Reverse Voltage - 50 to 1000 V

Forward Current - 2 A

FEATURES

For surface mounted applications

♦Low profile package

♦Glass Passivated Chip Junction

♦Easy to pick and place

♦Fast reverse recovery time

♦Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

♦Case: DO-214AC/SMA

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

Approx. Weight: 0.07g / 0.002oz

Pinning



Marking Code				
RS2A	YFW RS2A			
RS2B	YFW RS2B			
RS2D	YFW RS2D			
RS2G	YFW RS2G			
RS2J	YFW RS2J			
RS2K	YFW RS2K			
RS2M	YFW RS2M			

Absolute Maximum Ratings and 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 %.

Parameter	Symbols	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	v
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	v
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	v
Maximum Average Forward Rectified Current at T_c = 125 °C	I _{F(AV)}	2						A	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	50					Α		
Maximum Instantaneous Forward Voltage at 2 A	V _F	1.3					v		
Maximum DC Reverse Current $T_a = 25$ °C at Rated DC Blocking Voltage $T_a=125$ °C	I _R	5 100					μΑ		
Typical Junction Capacitance at V _R =4V,f=1MHZ	C _j	22					pF		
Maximum Reverse Recovery Time (1)	Trr	150 250 500			0	nS			
Typical Thermal Resistance (2)	R _{0JA} / R _{0JC}	65/22					°C/W		
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150					°C		

⁽¹⁾ Measured with $I_F \!=\! 0.5 A, I_R \!=\! 1A, I_n \!=\! 0.25 A$

⁽²⁾ P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



Ratings And Characteristic Curves

Fig.1 Forward Current Derating Curve

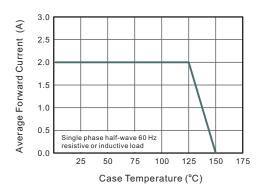


Fig.3 Typical Instaneous Forward Characteristics

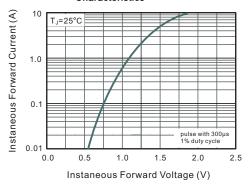


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

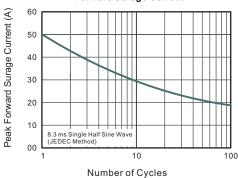


Fig.2 Typical Reverse Characteristics

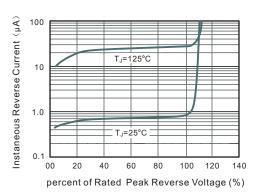
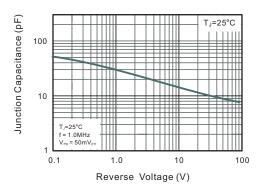


Fig.4 Typical Junction Capacitance





Marking Diagram

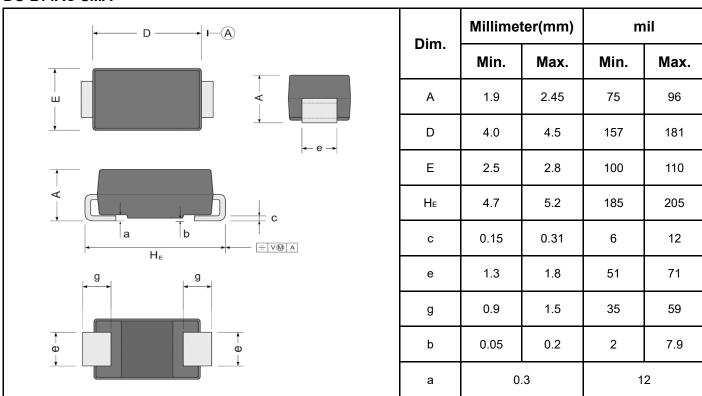


Ordering information

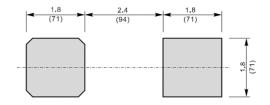
Package	Packing Description	Packing Quantity
DO-214AC SMA	Tape/Reel,13"reel	5000PCS/Reel 50000PCS/Carton

Package Dimensions

DO-214AC SMA



The recommended mounting pad size



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



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