

0.2Amp High Voltage Rectifier

Reverse Voltage - 2500 to 5000 V

Forward Current -0.2A

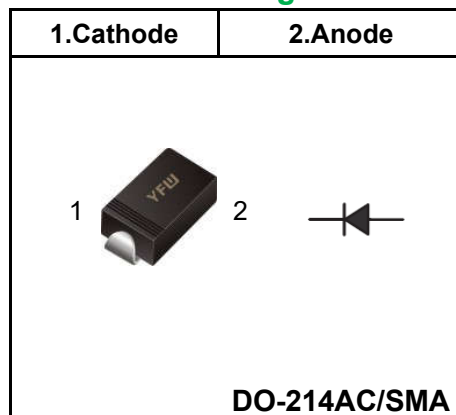
FEATURES

- ♦The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ♦Fast switching for high efficiency
- ♦Open-Junction chip ,silastic passivated
- ♦Low reverse leakage
- ♦High forward surge current capability
- ♦High temperature soldering guaranteed: 250°C/10
- ♦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



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 %.

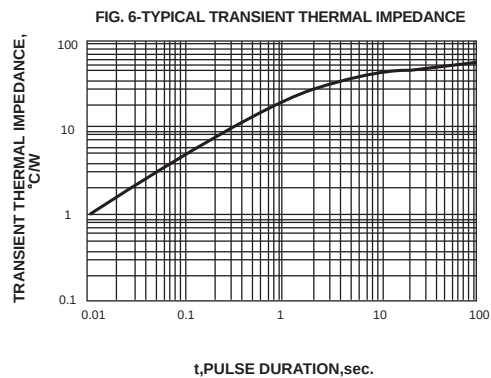
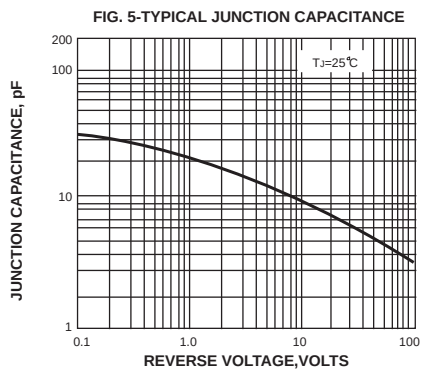
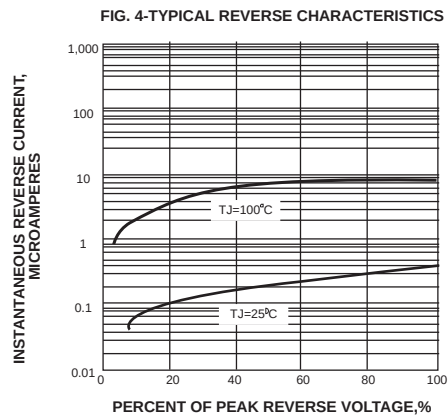
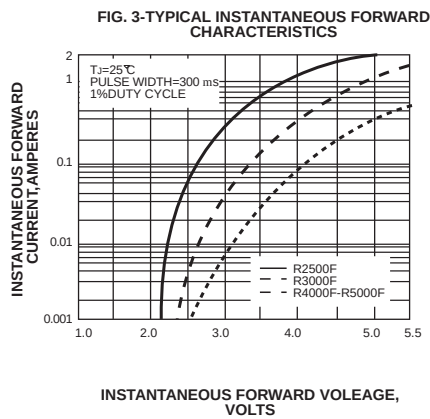
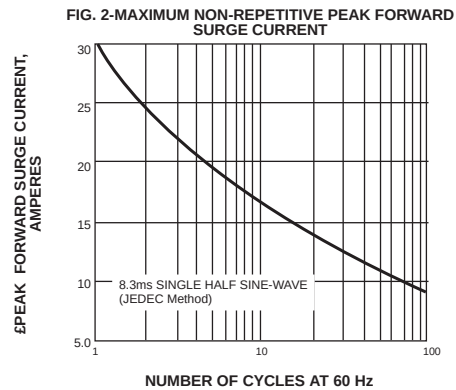
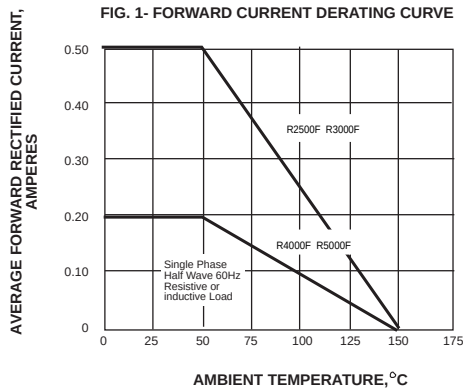
Parameter	Symbols	R2500F	R3000F	R4000F	R5000F	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	2500	3000	4000	5000	V
Maximum RMS voltage	V_{RMS}	1750	2100	2800	3500	V
Maximum DC Blocking Voltage	V_{DC}	2500	3000	4000	5000	V
Maximum Average Forward Rectified Current at $T_c = 125\text{ }^{\circ}\text{C}$	$I_{F(AV)}$	0.5		0.2		A
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 0.2 A	V_F	4.0	5.0	6.5		V
Maximum DC Reverse Current $T_a = 25\text{ }^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a=100\text{ }^{\circ}\text{C}$	I_R	5.0 50.0				μA
Maximum reverse recovery time (Note 1)	T_{RR}	500				nS
Typical junction capacitance (NOTE 2)	C_J	15.0				pF
Typical thermal resistance (NOTE 3)	$R_{\theta JA}$	50.0				C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150				$^{\circ}\text{C}$

Note:1.Reverse recovery condition $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$

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

Ratings And Characteristic Curves



Marking Diagram



Ordering information

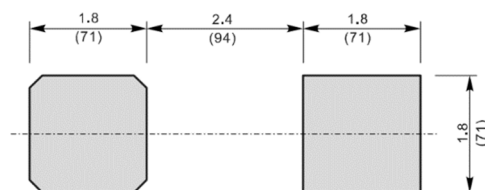
Package	Packing Description	Packing Quantity
DO-214AC SMA	Tape/Reel, 13"reel	5000PCS/Reel 50000PCS/Carton

Package Dimensions

DO-214AC SMA

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	1.9	2.45	75	96
D	4.0	4.5	157	181
E	2.5	2.8	100	110
H _E	4.7	5.2	185	205
c	0.15	0.31	6	12
e	1.3	1.8	51	71
g	0.9	1.5	35	59
b	0.05	0.2	2	7.9
a	0.3		12	

The recommended mounting pad size



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

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