



Surface Mounted Supper Fast Rectifiers

Reverse Voltage - 800 to 1000 V Forward Current - 1 A

Pinning

FEATURES

- ➤ Low reverse leakage
- ➤ High forward surge capability
- ➤ High reliability
- ➤ High temperature soldering guaranteed:260 °C/10 seconds
- >Lead and body according with RoHS standard
- >Green compound with suffix "-F" on Marking

MECHANICAL DATA

➤ Case:DO-214AC Molded plastic ➤ Epoxy: UL 94V-0 rate flame retardant ➤ Lead: Pure tin plated, lead free

Marking Code		
ES1K	YFW ES1K	
ES1M	YFW ES1M	

Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

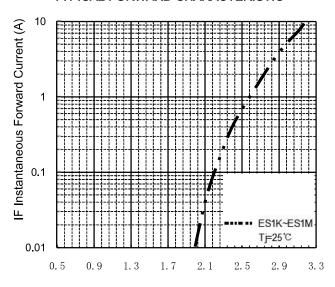
Parameter	Symbols	ES1K	ES1M	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	800	1000	v
Maximum RMS voltage	V _{RMS}	560	700	v
Maximum DC Blocking Voltage	V _{DC}	800	1000	v
Maximum Average Forward Rectified Current at T _c = 125 °C	I _{F(AV)}	1.0		А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	FSM	25		А
Maximum Instantaneous Forward Voltage at 1 A	V _F	3	.20	v
Maximum DC Reverse Current T_a = 25 °C at Rated DC Blocking Voltage T_a =125 °C	I _R	5 100		μА
Typical Junction Capacitance at V _R =4V,f=1MHZ	C _j	1	5	pF
Maximum Reverse Recovery Time	Trr	35		nS
Typical Thermal Resistance (Note 1)	R _{6JA}	105		°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~	+150	°C

¹⁾ Thermal resistance from junction to ambient, PCB mounted.



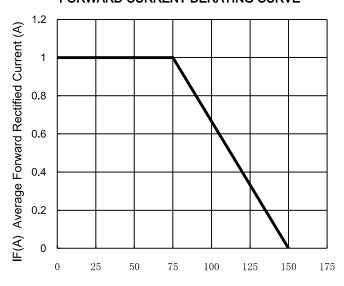
Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



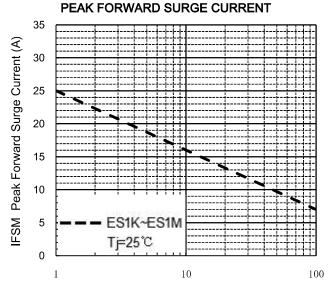
VF Instantaneous Forward Voltage (V)

FORWARD CURRENT DERATING CURVE



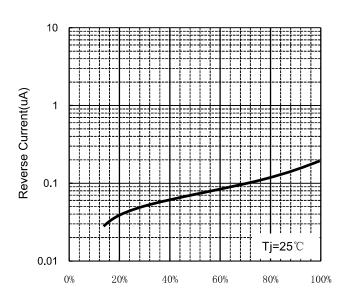
Tamb, ambient temperature (°C)

MAXIMUM NON REPETITIVE



Number of Cycles at 60 Hz.

TYPICAL REVERSE CHARACTERISTICS



Percent Of Rated Peak Reverse voltage %



Marking Diagram

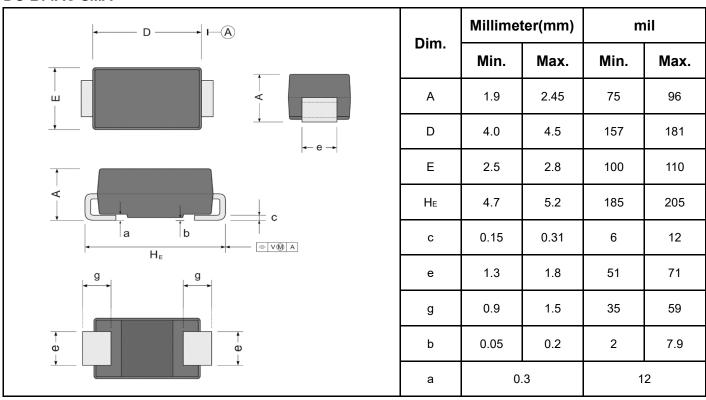


Ordering information

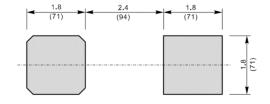
Package	Packing Description	Packing Quantity	
DO-214AC SMA	Tape/Reel,13"reel	5000PCS/Reel 50000PCS/Carton	

Package Dimensions

DO-214AC SMA



The recommended mounting pad size



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



Disclaimer

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