ES5AC THRU ES5JC SMC

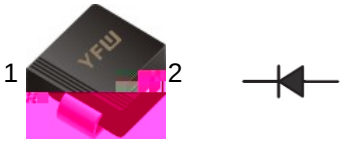
Surface Mount Superfast Recovery Rectifier

Reverse Voltage - 50 to 600 V

Forward Current - 5 A

Pinning

1.Cathode	2.Anode



DO-214AB/SMC

FEATURES

Glass Passivated Chip Junction
For surface mounted applications
Low profile package
Superfast reverse recovery time
Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

Case: DO-214AB/SMC
Terminals: Solderable per MIL-STD-750, Method 2026
Approx. Weight: 0.22g /0.0077oz

Marking Code	
ES5AC	YFW ES5A
ES5BC	YFW ES5B
ES5DC	YFW ES5D
ES5GC	YFW ES5G
ES5JC	YFW ES5J

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	ES5AC	ES5BC	ES5DC	ES5GC	ES5JC	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	V
Maximum Average Forward Rectified Current at T_c = 125 °C	$I_{F(AV)}$	5					A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	120					A
Maximum Instantaneous Forward Voltage at 5 A	V_F	0.95			1.25	1.65	V
Maximum DC Reverse Current T_a = 25 °C at Rated DC Blocking Voltage T_a=125 °C	I_R	5 100					μA
Typical Junction Capacitance at V_R=4V,f=1MHZ	C_j	50					pF
Maximum Reverse Recovery Time (1)	Trr	35					nS
Typical Thermal Resistance (2)	$R_{\theta JA}$/ $R_{\theta JC}$	35/13					°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150					°C

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

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

Fig.3 Typical Reverse Characteristics

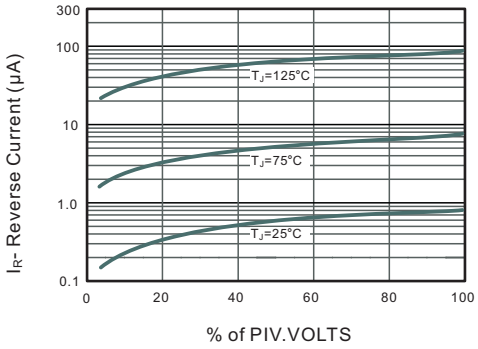
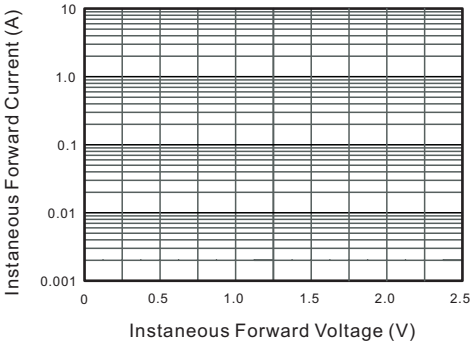


Fig.4 Typical Forward Characteristics



	Tape/Reel,13”reel	3000PCS/Reel 30000PCS/Carton

The information presented in this document is for reference only. GuangDong Youfeng Microelectronics