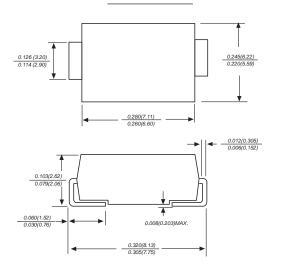


ES5A THRU ES5J

SURFACE MOUNT SUPER FAST RECTIFIER

Reverse Voltage - 50 to 600 Volts Forward Current - 5.0 Amperes

DO-214AB/SMC



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guarantéed: 250°C/10 seconds at terminals
- Glass passivated chip junction

MECHANICAL DATA

Case: JEDEC DO-214AB molded plastic body over passivated chip

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position : Any Weight :0.007 ounce, 0.25grams

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 current derate by 20%.

MDD Catalog Number	SYMBOLS	ES5A	ES5B	ES5C	ES5D	ES5E	ES5G	ES5J	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	150	200	300	400	600	VOLTS
Maximum RMS voltage	VRMS	35	70	105	140	210	280	420	VOLTS
Maximum DC blocking voltage	VDC	50	100	150	200	300	400	600	VOLTS
Maximum average forward rectified current at TL=75°C	l(AV)	5.0						Amps	
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM	150			135			Amps	
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 5.0A	VF	1.0			1.2	25	1.7	Volts	
Maximum DC reverse current Ta=25℃	10.0							μΑ	
at rated DC blocking voltage Ta=100℃	IR 100.0								
Maximum reverse recovery time (NOTE 1)	trr	35							ns
Typical junction capacitance (NOTE 2)	C¹	95.0							pF
Typical thermal resistance (NOTE 3)	RθJA	45.0						°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-50 to +150							°C

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

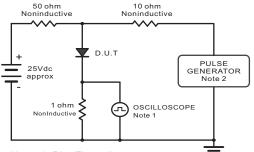
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



RATINGS AND CHARACTERISTIC CURVES ES5A THRU ES5J

Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram



- Note: 1. Rise Time = 7ns, max.
 - Input Impedance = 1megohm,22pF.
 - 2. Ries Time =10ns, max. Source Impedance = 50 ohms.

Fig.2 Maximum Average Forward Current Rating

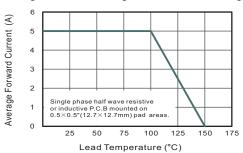


Fig.4 Typical Forward Characteristics

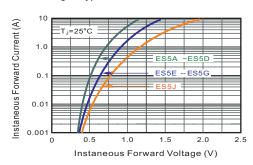
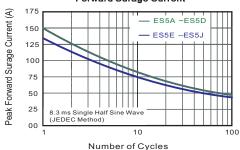


Fig.6 Maximum Non-Repetitive Peak Forward Surage Current



-1.0

10ns/div

Set time Base for 10ns/div

Fig.3 Typical Reverse Characteristics

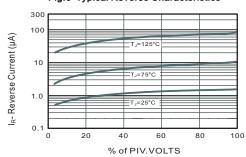
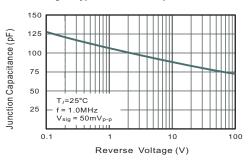


Fig.5 Typical Junction Capacitance





The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

单击下面可查看定价,库存,交付和生命周期等信息

>>MDD(辰达行)