ES8A THUR ES8J



ES8A THUR ES8J Super-Fast Surface Mount Rectifiers

General description

Super-Fast Surface Mount Rectifiers Reverse Voltage: 50 to 600V Forward Current:8.0A SMC/DO214AB package

SMC/DO-214AB

FEATURES

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

MECHANICAL DATA

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

(57:5) (57:5)



Maximum Ratings & Thermal Characteristics

(Ratings at 25 $^\circ\!\!\mathbb{C}$ ambient temperature unless otherwise specified.)

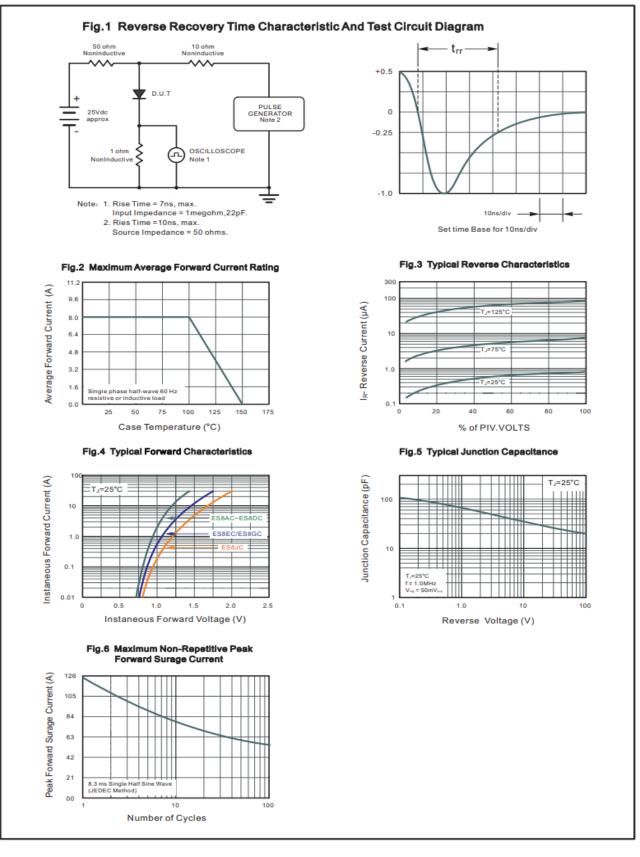
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Parameter	Symbols	ES8A	ES8B	ES8C	ES8D	ES8E	ES8G	ES8J	Units
Marking Code	Mark	ES8A	ES8B	ES8C	ES8D	ES8E	ES8G	ES8J	N/A
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	150	200	300	400	600	V
Maximum RMS voltage	Vrms	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current at T_c = 100 °C	IF(AV)	8							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	IFSM	125							A
Maximum Forward Voltage at 5 A	V_{F}	0.98 1.3 1.7					V		
Maximum DC Reverse Current $T_a = 25 \text{ °C}$ at Rated DC Blocking Voltage $T_a = 125 \text{ °C}$	I _R	10 350							μA
Typical Junction Capacitance at V _R =4V, f=1MHz	Cj	50							pF
Maximum Reverse Recovery Time ⁽¹⁾	trr	35							ns
Typical Thermal Resistance (2)	Reja Rejc	75 20						°C/W	
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +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.

RATING AND CHARACTERISTIC CURVES







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