

Surface Mount Superfast Rectifiers

Features

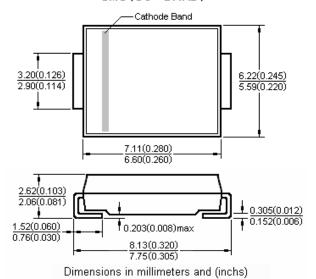
- Glass passivated chip junctions
- Ideal for automated placement
- Ultrafast reverse recovery time for high efficiency
- Low profile package
- High forward surge capability
- High temperature soldering: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/1 and WEEE 2002/96/EC

Mechanical Date

- Case: JEDEC DO-214AB molded plastic body over passivated chip
- Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D
- Polarity: Laser band denotes cathode end



SMC (DO - 214AB)



Maximum Ratings and Electrical Characteristics Rating at 25°C

ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Parameter	Symbols	ES3A	ES3B	ES3C	ES3D	ES3E	ES3G	ES3J	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	600	٧
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	420	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	٧
Maximum Average Forward Rectified Current at T _L = 100 °C	I _{F(AV)}	3							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	100							А
Maximum Forward Voltage at 3A	V _F	1.0 1.25 1.65					1.65	٧	
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 125 °C	I _R	5 100						μA	
Typical Junction Capacitance	Cj	35						pF	
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1A, I _{rr} =0.25A	t _{rr}	35						ns	
Typical Thermal Resistance 2)	R _{0JA} R _{0JC}	45 15						°C/W	
Operating and Storage Temperature Range	T_{j},T_{stg}	-55 ~ +150							°C

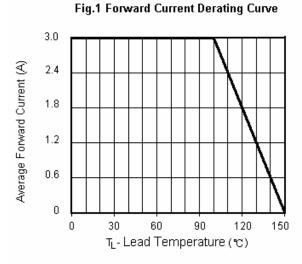
¹⁾ Measured with I_F = 0.5 A, I_R = 1 A, I_{II} = 0.25 A 2) P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 mm) copper pad areas



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Characteristic Curves (T_A=25 ℃ unless otherwise noted)

Fig. 4. Forested Community Department Community



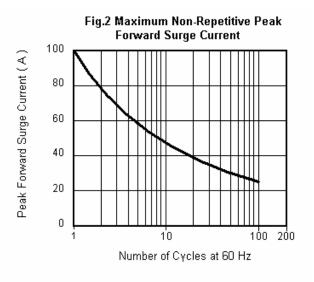


Fig.3 Typical Instantaneous Forward Characteristics

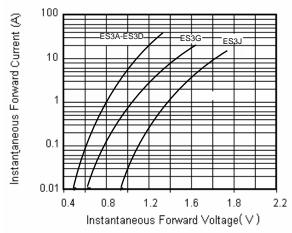
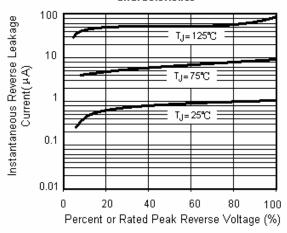


Fig.4 Typical Reverse Leakage Characteristics



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