

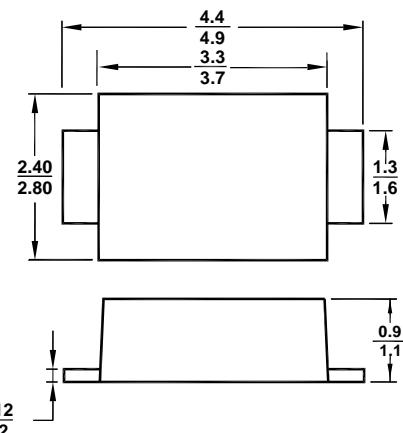
ES3AF THRU ES3JF-HAF

Surface Mount Superfast Recovery Rectifier
Reverse Voltage - 50 to 600 V
Forward Current - 3 A

Features

- Glass Passivated Chip Junction
- For surface mounted applications
- Low profile package
- Superfast reverse recovery time
- Halogen and Antimony Free(HAF), RoHS compliant

SMAF



All Dimensions in mm

Mechanical Data

- **Case:** SMAF
- **Terminals:** Solderable per MIL-STD-750, Method 2026

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, derate current by 20%.

Parameter	Symbols	ES3AF	ES3BF	ES3CF	ES3DF	ES3EF	ES3GF	ES3JF	Units				
	Marking	ES3A	ES3B	ES3C	ES3D	ES3E	ES3G	ES3J	-				
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	V				
Maximum RMS Voltage	V _{RMS}	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 T _L = 100°C	I _{F(AV)}	3						A					
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	100						A					
Maximum Forward Voltage at 3 A	V _F	1		1.25		1.68		V					
Maximum Reverse Current at T _A = 25°C at Rated DC Blocking Voltage at T _A = 125°C	I _R	5 100						μA					
Typical Junction Capacitance	C _J	45						pF					
Maximum Reverse Recovery Time at I _F = 0.5 A, I _R = 1 A, I _{rr} = 0.25 A	t _{rr}	35						ns					
Typical Thermal Resistance ¹⁾	R _{θJA}	60						°C/W					
Operating Junction and Storage Temperature Range	T _j , T _{stg}	- 55 to + 150						°C					

¹⁾ P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 mm) copper pad areas.

TOP DYNAMIC

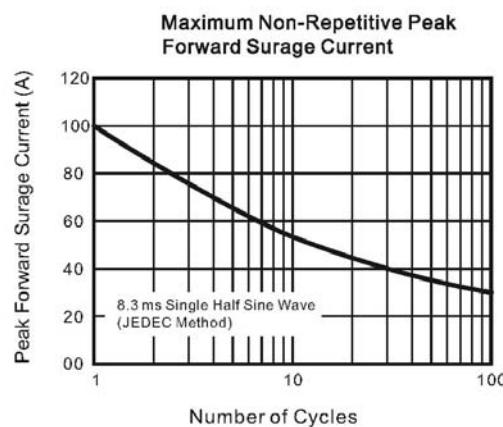
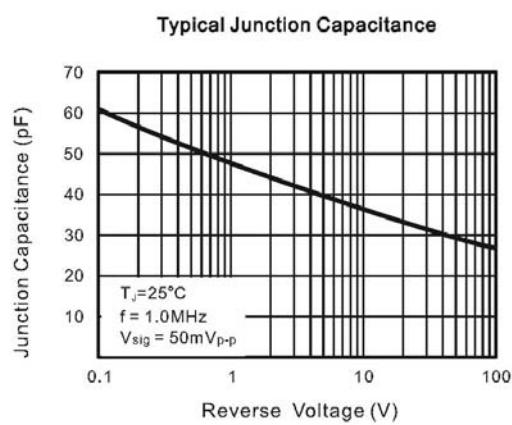
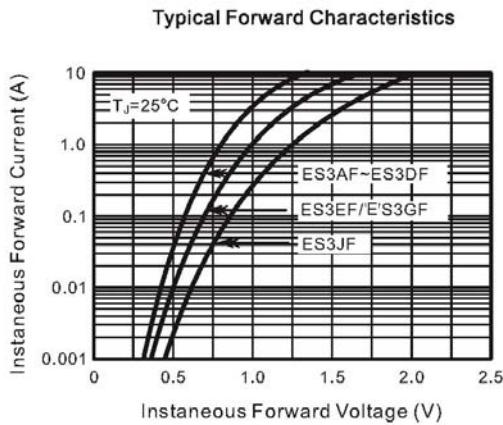
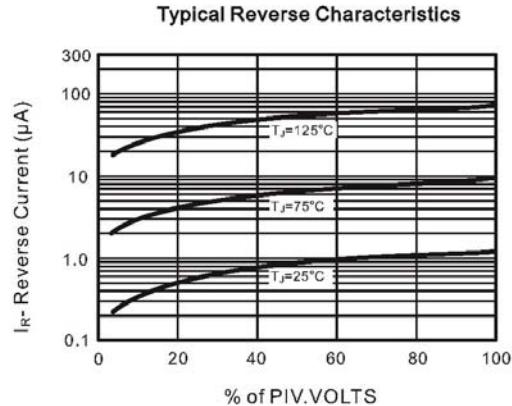
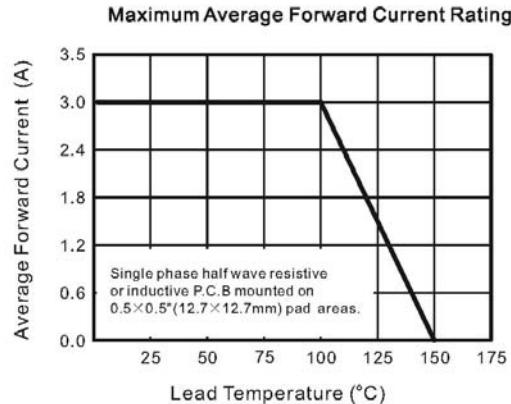


ISO14001 : 2004 ISO 9001 : 2008 OHSAS 18001 : 2007 IECQ QC 080000

Certificate No. 121505007 Certificate No. 50114012 Certificate No. 05131509008 Certificate No. ECOH MOODY 1402

Dated : 13/07/2016 JD Rev:02

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