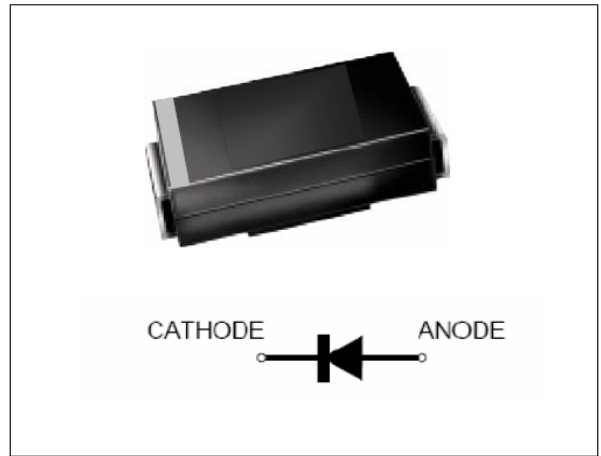


S-EFM108

Surface Mount Glass Passivated Super Fast Rectifiers Reverse Voltage 600V Forward Current 1.0A

FEATURES

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * High temperature metallurgically bonded construction
- * For use in high frequency rectifier circuits
- * Fast switching for high efficiency
- * Cavity-free glass passivated junction
- * Capable of meeting environmental standards of MIL-S-19500
- * 1.0 A operation at TL=100°C with no thermal runaway
- * Typical IR less than 1.0μA
- * High temperature soldering guaranteed: 260°C/10 seconds
- * S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.



We declare that the material of product compliancewith ROHS requirements

2.Mechanical Data

Case: JEDEC DO-214AC, molded plastic over glass body

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0023 oz., 0.065 g

Handling precautin:None

3. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
S-EFM108	EF8	7500/Tape&Reel

4.Electrical Characteristic

Maximum & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	S-EFM108	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	600	V
Maximum RMS voltage	V_{RMS}	420	V
Maximum DC blocking voltage	V_{DC}	600	V
Maximum average forward rectified current at TL = 100°C	$I_F(AV)$	1.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30	A
Typical thermal resistance (Note 2)	$R_{\theta JA}$	150	°C/W
Operating junction and storage temperature range	T_J, T_{STG}	-50 to +150	°C

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	S-EFM108	Unit
Maximum instantaneous forward voltage at 1.0A	V_F	1.7	V
Maximum DC reverse current $T_A = 25^\circ C$ at rated DC blocking voltage $T_J = 125^\circ C$	IR	5.0 100	μA
Typical reverse recovery time (Note 1)	t_{rr}	35	ns
Typical junction capacitance at 4.0V, 1MHz	CJ	8.0	PF

NOTES:

1. $I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A$
2. 8.0mm² (.013mm thick) land areas
3. V_F & T_{RR} & V_{DC} & IR all test; other parameter is scheme out.

S-EFM108

5. Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

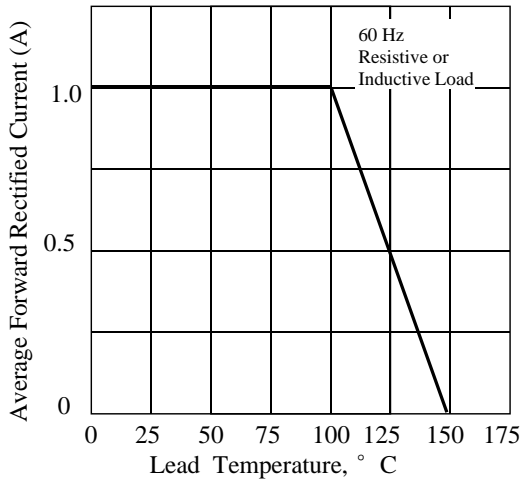


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

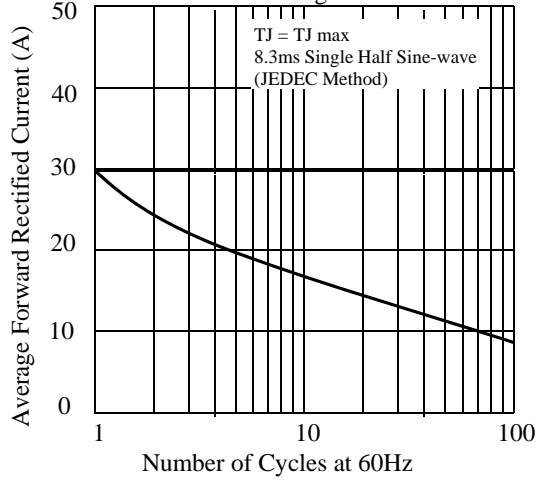


Fig 3. - Typical Instantaneous Forward Characteristics

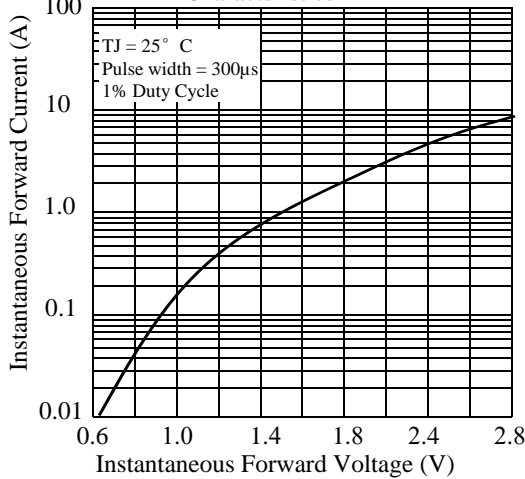


Fig 4. - Typical Reverse Characteristics

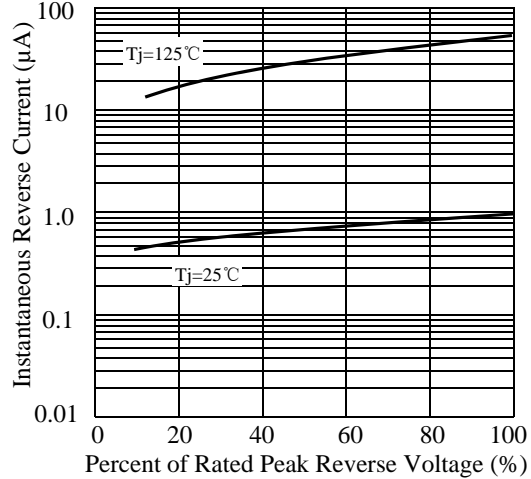


Fig 5. - typical transient thermal impedance

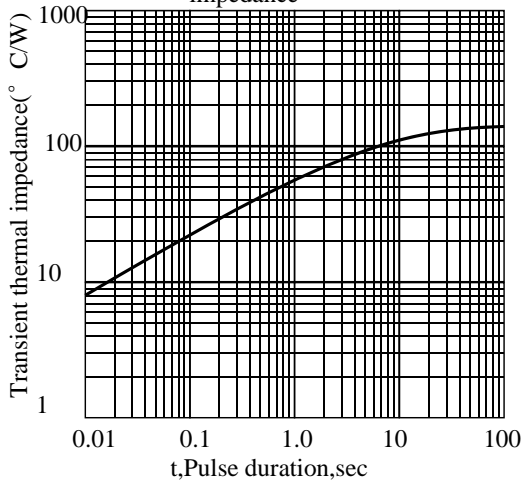
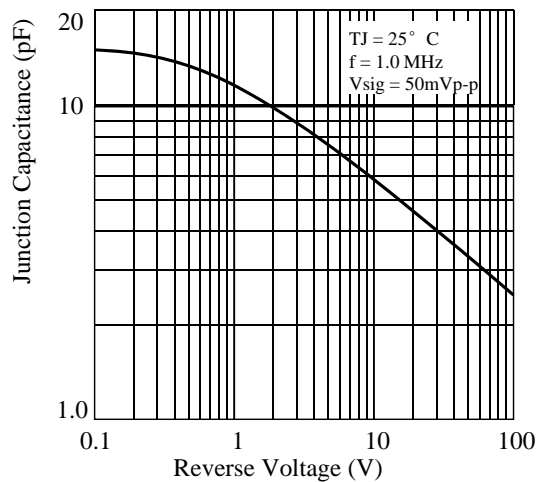
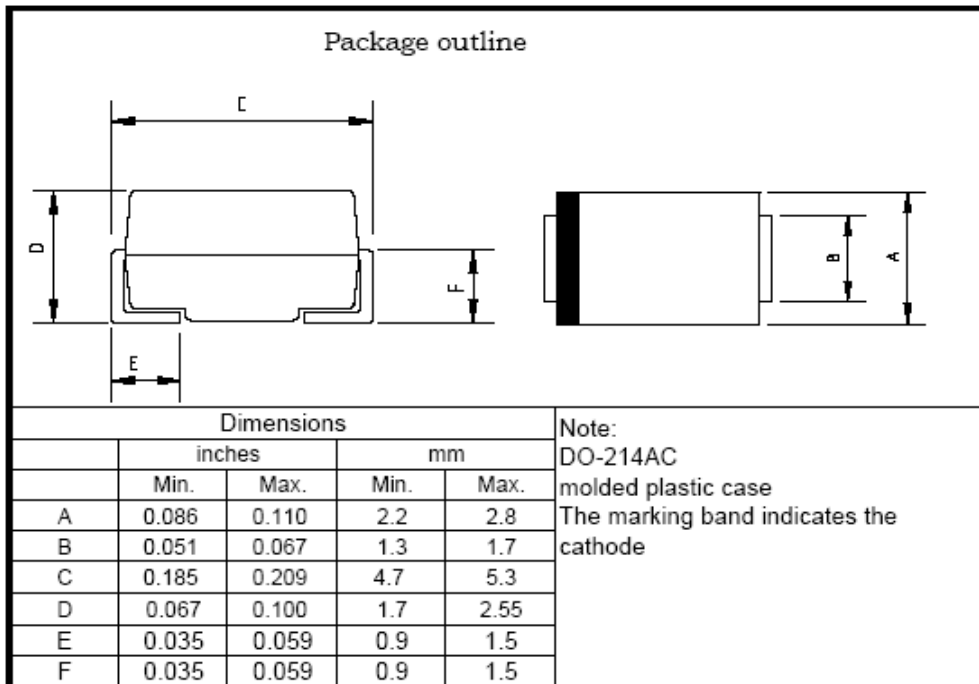


Fig 6. - Typical Junction Capacitance

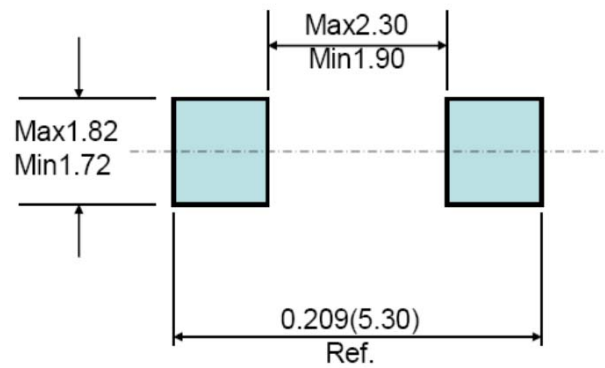


S-EFM108

6. dimension:



Mounting Pad Layout ---SMA



单击下面可查看定价，库存，交付和生命周期等信息

[>>LRC\(乐山无线电\)](#)