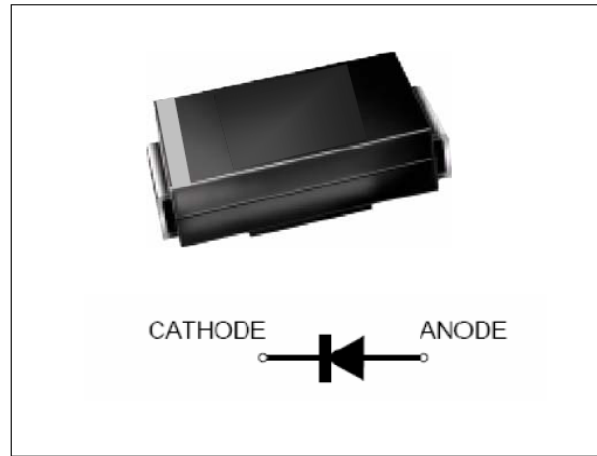


S-HFMA280

Surface Mount Glass Passivated High Efficiency Rectifiers Reverse Voltage 1000V Forward Current 2.0A

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 Capable.



We declare that the material of product compliance PPAP with 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 precaution: None

Electrical Characteristic

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

| Parameter Symbol | symbol | S-HFMA280 | Unit |
|--|-----------|-------------|------|
| Device marking code | | HF28 | |
| Maximum repetitive peak reverse voltage | V_{RRM} | 1000 | V |
| Maximum RSM voltage | V_{RSM} | 700 | V |
| Maximum DC blocking voltage | V_{DC} | 1000 | V |
| Maximum average forward rectified current at TL = 100°C | IF(AV) | 2.0 | A |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 50 | A |
| Typical thermal resistance (Note 2) | RθJA | 150 | °C/W |
| Operating junction and storage temperature range | TJ, TSTG | -50 to +150 | °C |

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

| Parameter Symbol | symbol | S-HFM280 | Unit |
|--|--------|------------|------|
| Maximum instantaneous forward voltage at 2.0A | V_F | 1.7 | V |
| Maximum DC reverse current TA = 25°C at rated DC blocking voltage TJ = 125°C | IR | 5.0 100 | μA |
| Typical reverse recovery time (Note 1) | trr | 75 | ns |
| Typical junction capacitance at 4.0V, 1MHz | CJ | 25.0 | PF |

NOTES:

1. IF = 0.5A, IR = 1.0A, IRR = 0.25A
2. 8.0mm² (.013mm thick) land areas
- 3.VF & TRR & VDC & IR all test; other parameter is scheme out.

S-HFMA280

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

Fig. 1 - Forward Current Derating Curve

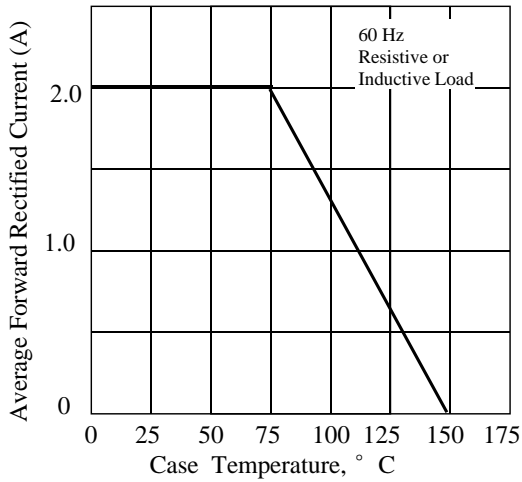


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

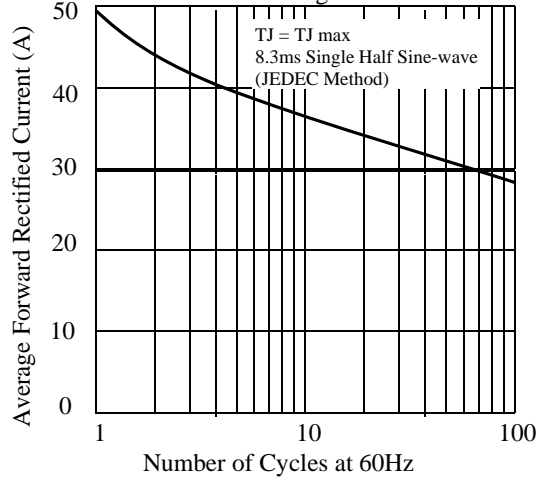


Fig 3. - Typical Instantaneous Forward Characteristics

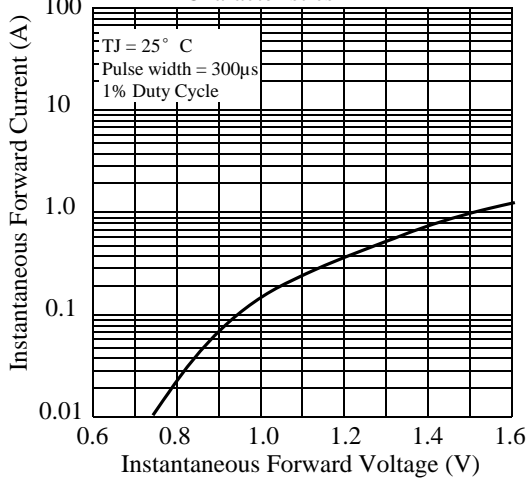


Fig 4. - Typical Reverse Characteristics

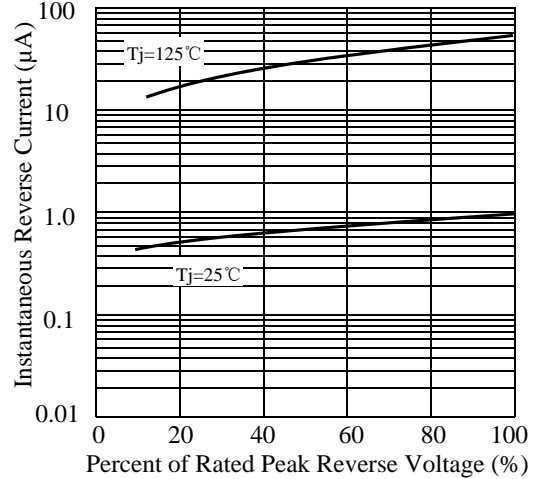


Fig 5. - typical transient thermal impedance

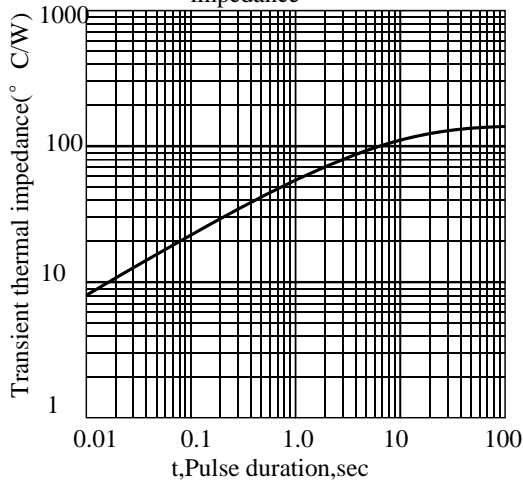
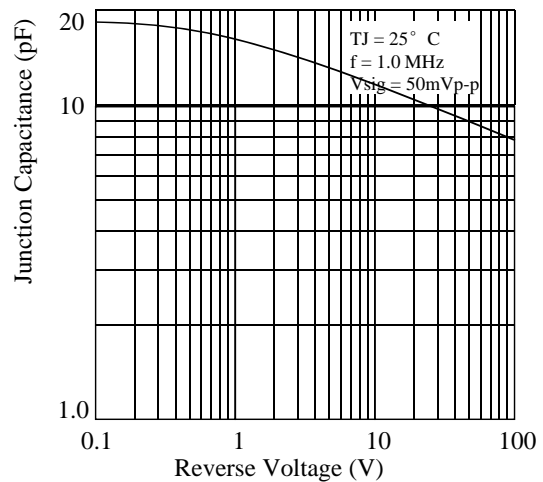
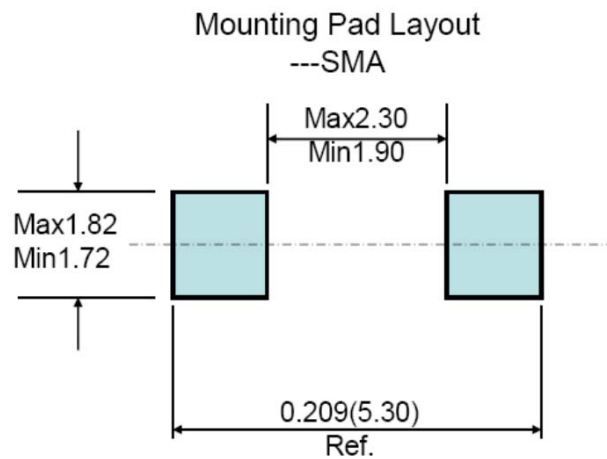
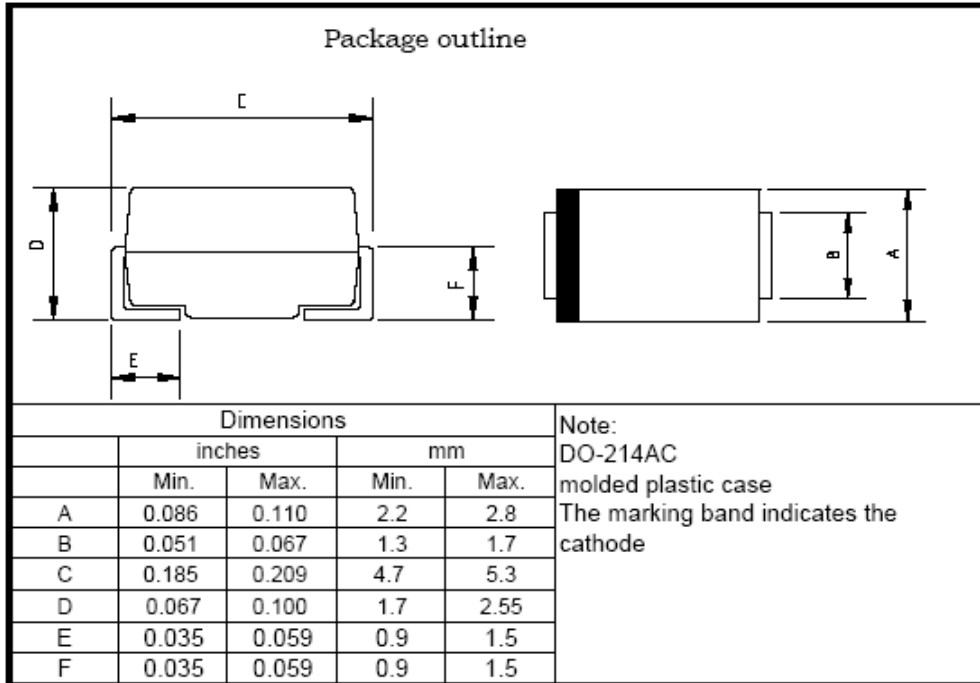


Fig 6. - Typical Junction Capacitance



S-HFMA280

3. dimension:



单击下面可查看定价，库存，交付和生命周期等信息

[>>LRC\(乐山无线电\)](#)