HSMBJ26(C)AE352

Transient Voltage Suppressor

Features

- 800W Peak Pulse Power Dissipation
- Uni- and Bi-Directional Versions Available
  Excellent Clamping Capability
- Glass Passivated Die Construction
- Low inductance
- Fast Response Time
- Plastic Material: UL Flammability Classification
  Rating 94V-0



SMB
(DO-214AA)

Mechanical Data

- Case: SMB Molded plastic body
- Terminals: Solderable per MIL-STD-750,Method 2026

Applications

- I/O interface
- AC/DC power supply
- Low frequency signal transmission line
  (RS232,RS485,etc.)

Maxmim Ratings (Ta=25°C unless otherwise noted)

Peak pulse power dissipation at 10/1000μs waveform (Note1, Note2, Fig.1)	P_{PPM}	800	W
Peak pulse current	I_{PP}	14.3	A
Steady state power dissipation at T_A=50℃ (Fig.5)	$P_{M(AV)}$	1	W
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load, (JEDEC Method) (Note3, Fig.6)	I_{FSM}	100	A
Operating junction and Storage Temperature Range.	T_J,T_{STG}	-55 to +150	°C
Typical thermal resistance junction to lead	$R_{\theta JL}$	30	°C/W
Typical thermal resistance junction to ambient	$R_{\theta JA}$	100	°C/W

Notes:1. Non-repetitive current pulse, per Fig.3 and derated above T_A=25℃ per Fig.2.
2. Mounted on 5.0mm×5.0mm (0.03mm thick) copper pads to each terminal.
3. 8.3ms single half sine-wave, or equivalent square wave, duty cycle=4 pulses per minutes maximum.

Electrical Characteristics (Ta=25°C)

Part Number		Device Marking Code		Reverse Stand- Off Voltage	Breakdown Voltage @I_T	Test Current	Maximum Clamping Voltage @I_{PP}	Peak Pulse Current	Reverse Leakage @V_{RWM}
Unidirectional	Bidirectional	UNI	BI	V_{RWM}(V)	V_{BR}(V)	I_T(mA)	V_C(V)	I_{PP}(A)	I_R(μA)
HSMBJ26AE352	HSMBJ26CAE352	ME	CE	26.0	28.9-31.9	1	42.1	14.3	1

Ratings and Characteristic Curves (T_A=25℃ unless otherwise noted)

Figure 1. Peak Pulse Power Rating Curve

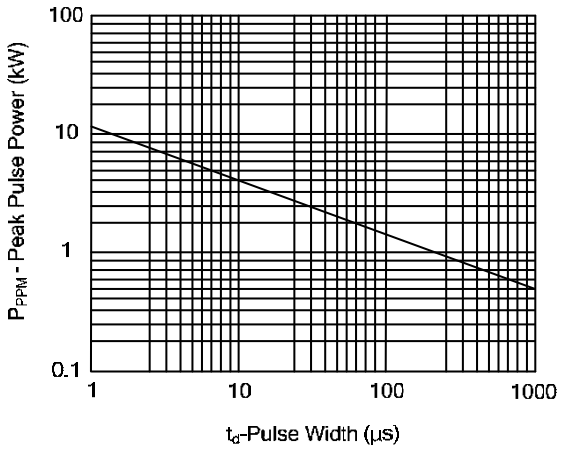


Figure 2. Pulse Derating Curve

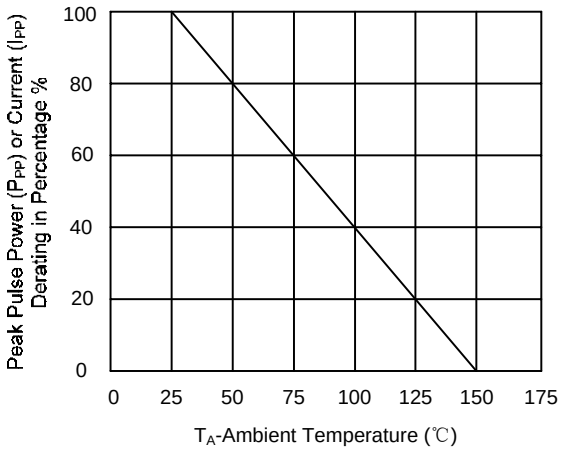


Figure 3. Pulse Waveform

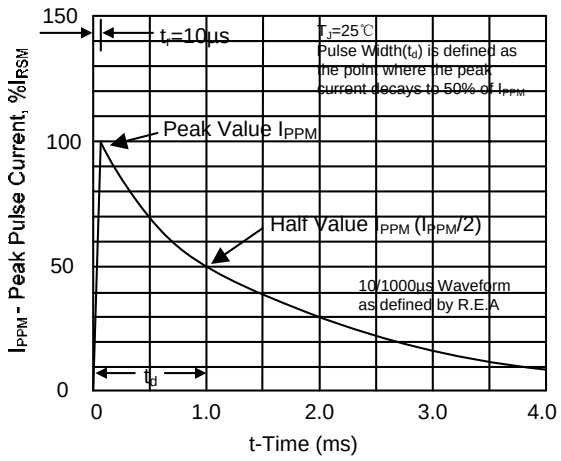


Figure 4. Typical Junction Capacitance

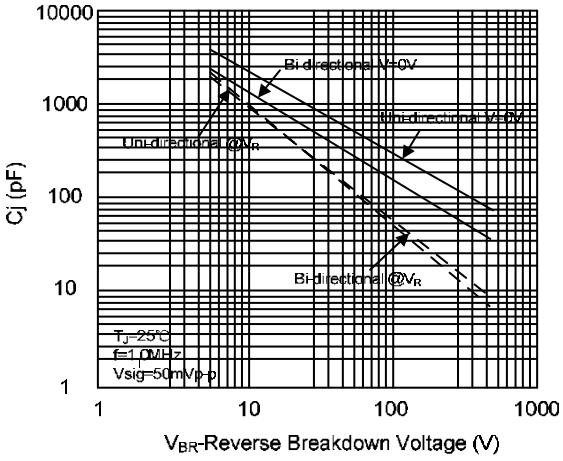


Figure 5. Steady State Power Dissipation Derating Curve

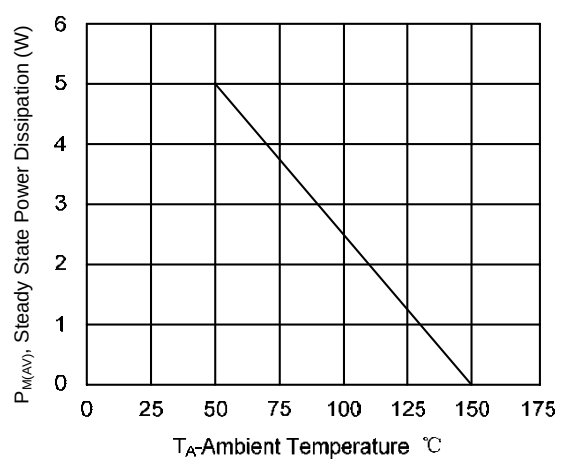
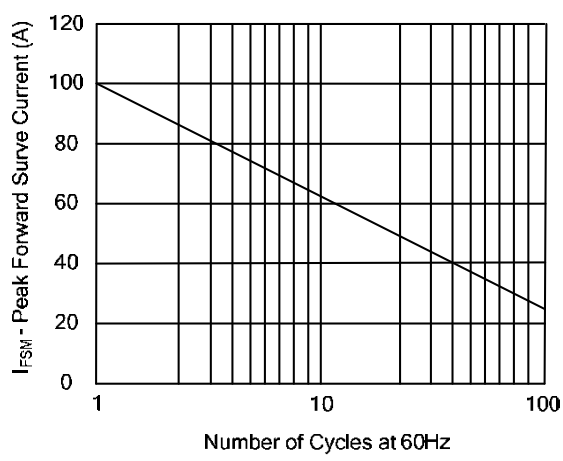
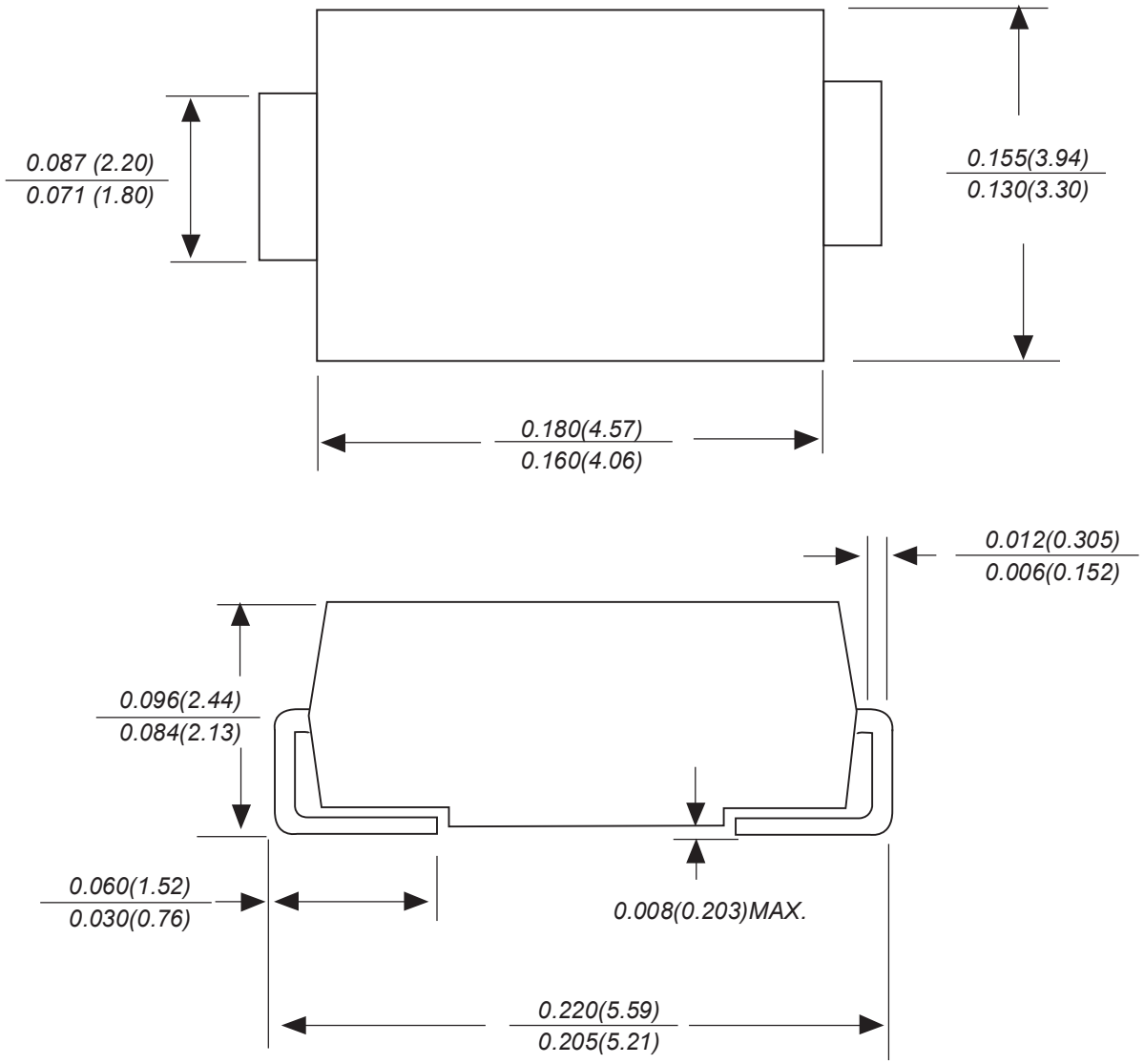


Figure 6. Maximum Non-Repetitive Forward Surge Current Uni-Directional Only



Package Outline Dimensions

SMB(DO-214AA)



Dimensions in inches and (millimeters)

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ISL28133FHZ-T7 PTVSHC3D5VU TLV74318PDBVR-HXY S4D15120H 1SMB5930BT3G C4D08120E-TR DSC06065 MJD127G MUR1040FCT AOD403-HXY DMPH6250SQ-13 SG3525-HXY TPS7A0533PDBZR-HXY 2N7002-HXY BD237STU CH440G S3D08065E SGM3798YG/TR Si2323DS-T1-E3-HXY HBAS40-05LT1G ISL28233FUZ-T7 SS5150 C3M0040120D E4D10120A IDL10G65C5XUMA2 IRLML2244TRPBF-HXY MSC040SMA120B4 TPD1E0B04DPYR 1SMB5934B C6D06065Q-TR