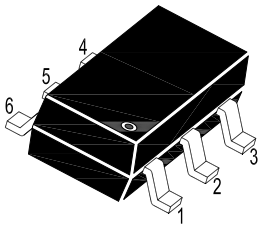
AMMBD3SGD,AMMBD4CAD,CCD,SED

Silicon Epitaxial Planar Switching Diode

Features

- AEC-Q101 Qualified
- Halogen and Antimony Free(HAF), RoHS compliant

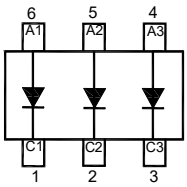


SOT-26 Plastic package

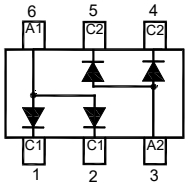
Application

- Ultra high speed switching

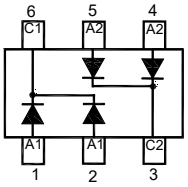
AMMBD3SGD



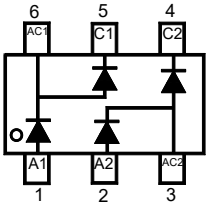
AMMBD4CAD



AMMBD4CCD



AMMBD4SED



Absolute Maximum Ratings (T_a = 25℃)

Parameter	Symbol	Value	Unit
Maximum Peak Reverse Voltage	V_{RM}	80	V
Reverse Voltage	V_R	80	V
Average Forward Current	$I_{F(AV)}$	100	mA
Maximum Peak Forward Current	I_{FM}	300	mA
Non-repetitive Peak Forward Surge Current (t = 1 μs)	I_{FSM}	4	A
Power Dissipation [1)]	P_D	200	mW
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	- 55 to + 150	℃

Thermal Characteristics

Parameter	Symbol	Max.	Unit
Thermal Resistance from Junction to Ambient [1)]	$R_{\theta JA}$	625	℃/W

[1)] Device mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.

Characteristics at T_a = 25℃

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I_R = 100 μA	$V_{BR(R)}$	80	-	V
Forward Voltage at I_F = 100 mA	V_F	-	1.2	V
Reverse Current at V_R = 70 V	I_R	-	0.1	μA
Total Capacitance at V_R = 6 V, f = 1 MHz	C_T	-	3.5	pF
Reverse Recovery Time at I_F = 10 mA, I_{rr} = 0.1 X I_R , V_R = 6 V, R_L = 100 Ω	t_{rr}	-	4	ns

Electrical Characteristics Curves

Fig 1. Power Derating Curve

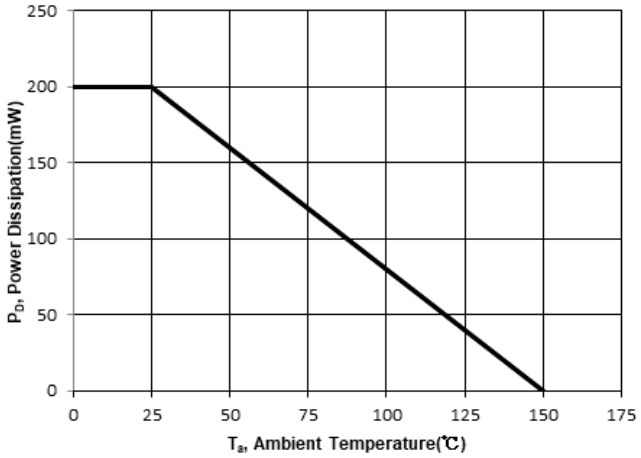


Fig 2. Total Capacitance vs. Reverse Voltage

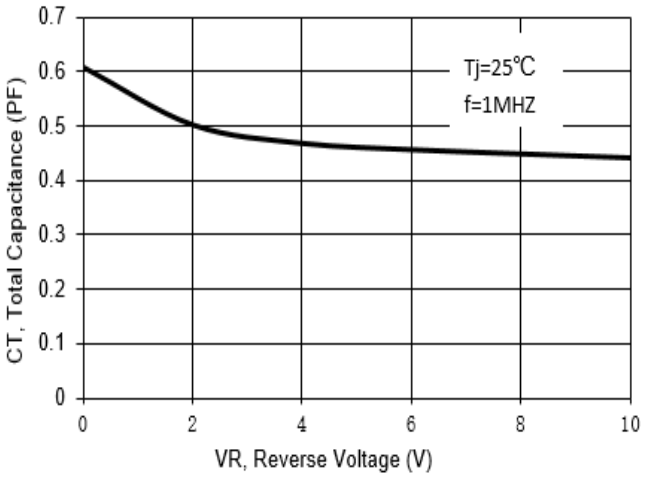


Fig 3. Reverse Current vs. Reverse Voltage

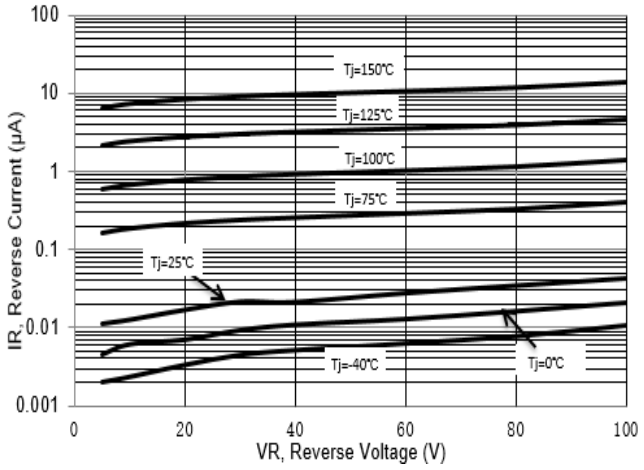
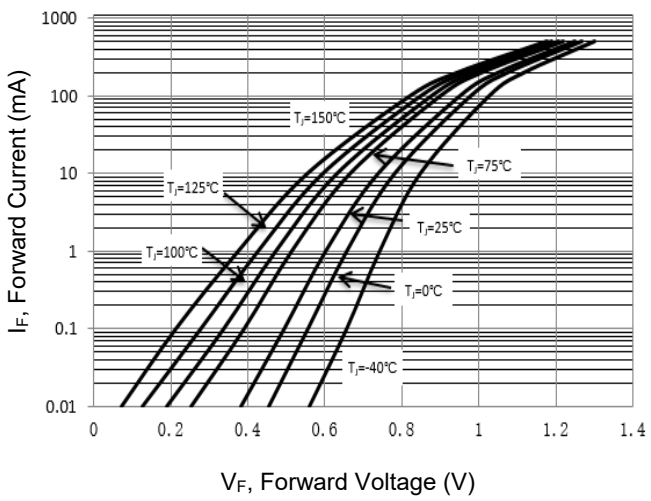
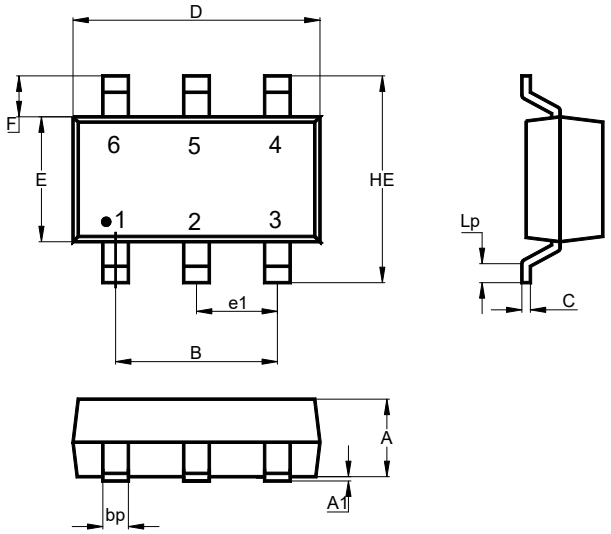


Fig 4. Forward Characteristics

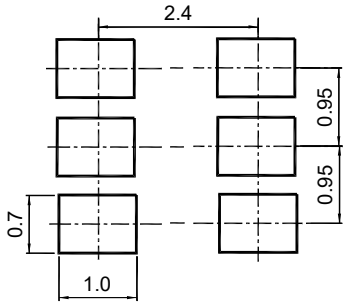


Package Outline (Dimensions in mm) SOT-26



Unit	A	A1	B	C	D	E	e1	F	HE	Lp	bp
mm	1.2 1.0	0.1 0	2.1 1.7	0.20 0.08	3.1 2.7	1.7 1.3	0.95 typ.	0.65 0.6	3.0 2.6	0.6 0.2	0.5 0.3

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOT-26	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

Marking information

" XX " = Part No.

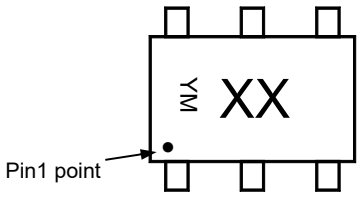
Product Model	Marking Code	Product Model	Marking Code
AMMBD3SGD	SL	AMMBD4CCD	SN
AMMBD4CAD	SM	AMMBD4SED	4D

" YM " = Date Code Marking

" Y " = Year

" M " = Month

Font type: Arial



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