



GS5AB~GS5MB

GENERAL PURPOSE RECTIFIER

Preliminary

Rev.0.1

DESCRIPTION

Plastic package has underwriters laboratories flammability classification 94V-0
For surface mounted applications in order to optimize board space
Glass passivated chip junction
Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic
Terminals: Solder plated, solderable per J-STD-002
Polarity: Color band denotes cathode end
Weight: 0.1 gram

ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

(Rating at 25 ambient temperature unless otherwise specified.)

Parameter	Symbol	GS5AB	GS5BB	GS5DB	GS5GB	GS5JB	GS5KB
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THERMAL RESISTANCES

Symbol	Parameter	GS5AB	GS5BB	GS5DB	GS5GB	GS5JB	GS5KB	GS5MB	Unit
$R_{th(j-c)}$	Junction to case (note1)	16							/W

Note1 Thermal resistance from junction to case mounted on P.C.B. with 4.0 mm x 4.0 mm copper pad areas.

MARKING



G	General Purpose Rectifier
S	Surface Mount
5	$I_{F(AV)}=5.0A$
M	$V_{RRM}:1000V$

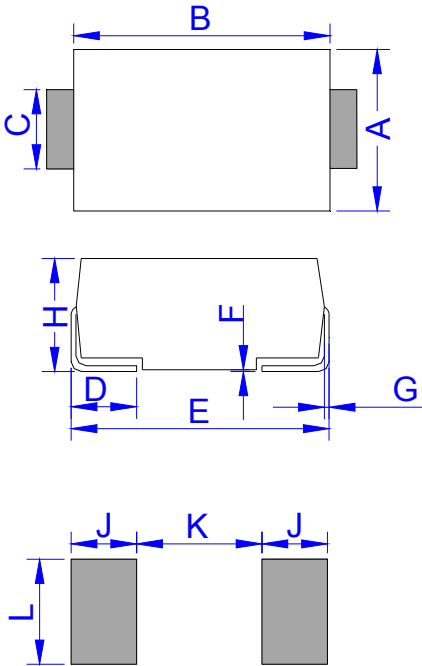
xH1 Month 1 2 3 9 A B C

3x1

2018	2019	2020	2021	2022	2023	2024
H	I	J	K	L	M	N
2025	2026	2027	2028	2029	2030	...
O	P	Q	R	S	T	...

3Hx Batch number

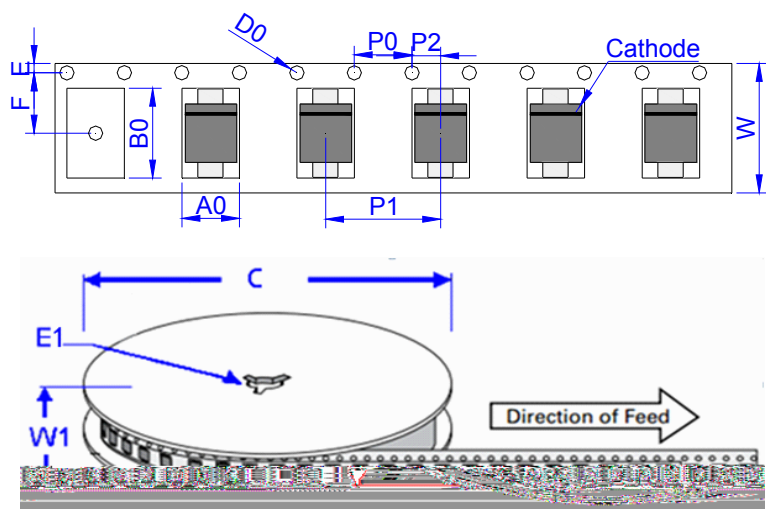
PACKAGE MECHANICAL DATA



DO-214AA (SMB)

Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	3.30	3.94	0.130	0.155
B	4.30	4.80	0.169	0.189
C	1.90	2.20	0.075	0.087
D	0.95	1.52	0.037	0.060
E	5.20	5.60	0.205	0.220
F	0.051	0.203	0.002	0.008
G	0.15	0.31	0.006	0.012
H	2.10	2.40	0.083	0.094
J	2.20		0.087	
K		2.60		0.102
L	2.30		0.091	

TAPE AND REEL SPECIFICATION-SMB



Ref.	Dimensions	
	Millimeters	Inches
A0	3.76 ± 0.3	0.148 ± 0.012
B0	5.69± 0.3	0.224 ± 0.012
C	330.0	13.0
D0	1.55 ± 0.1	0.061 ± 0.004
E	1.75 ± 0.2	0.069 ± 0.008
E1	13.3 ± 0.3	0.524± 0.012
F	5.5 ± 0.2	0.217 ± 0.008
P0	4.00 ± 0.2	0.157 ± 0.008
P1	8.00 ± 0.2	0.3145 ± 0.008
P2	2.00 ± 0.2	0.079 ± 0.008
W	12.0± 0.2	0.472 ± 0.008
W1	15.7 ± 2.0	0.618 ± 0.079

OUTLINE	UNIT WEIGHT (g/PCS) typ.	REEL (PCS)	PER CARTON (PCS)	REEL DIAMETERS (mm)
TAPING	0.1	3,000	48,000	330

CHARACTERISTICS CURVE

FIG.1: Typical forward characteristics (25 °C)

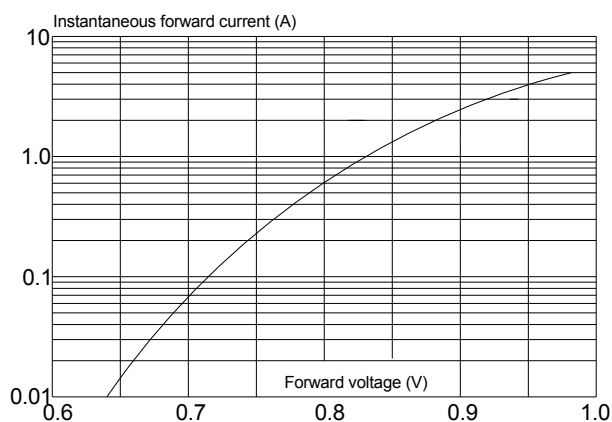


FIG.2: Typical reverse characteristics

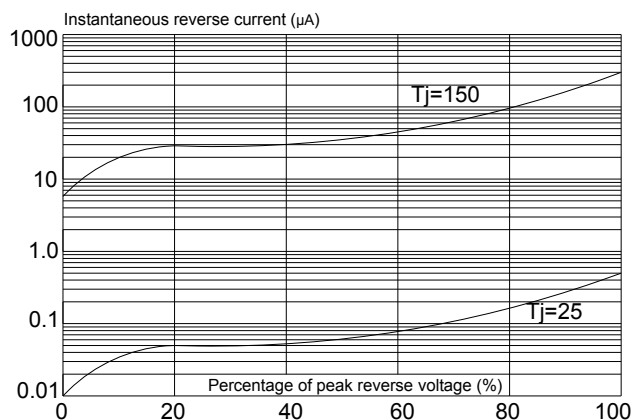


FIG.3: Maximum non-repetitive peak forward surge current

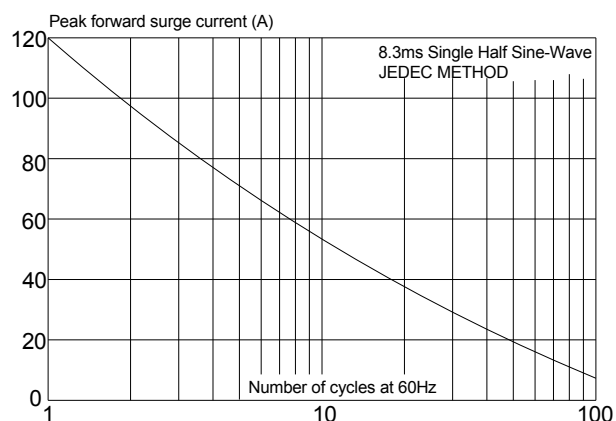
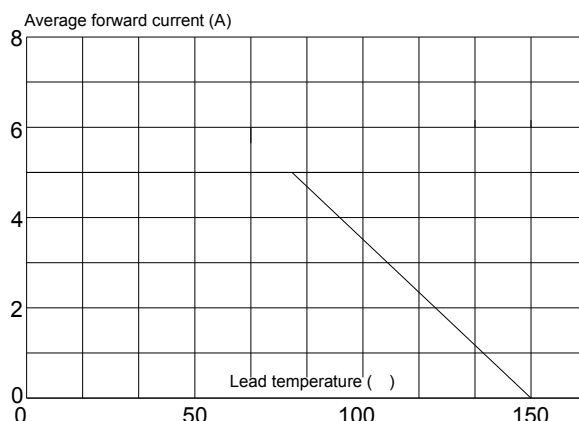


FIG.4: Forward current derating curve



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