



TVS

Rectifiers

SKY

Zener

Switching

DIAC

Bridge



DO-214AA (SMB)

FEATURES

- For surface mounted applications
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
250 C/10 seconds at terminals
- Glass passivated chip junction

PRIMARY CHARACTERISTICS

IF(AV)	2.0 A
VRRM	50V to 1000V
IFSM	60A
VF	1.1 V
IR	5 μ A
TJ max.	150°C

MECHANICAL DATA

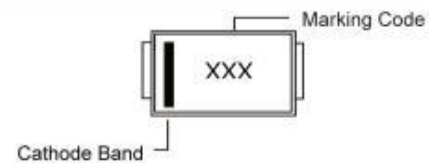
Case: JEDEC DO-214AA molded plastic body over passivated chip

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.088 grams

Part Marking System



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified.
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

PARAMETER	SYMBOL	GS2A	GS2B	GS2D	GS2G	GS2J	GS2K	GS2M	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TA=75 °C	I _(AV)	2.0							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	60.0							Amps
Maximum instantaneous forward voltage at 2.0A	V _F	1.1							Volts
Maximum DC reverse current TA=25 °C	I _R	5.0							µA
at rated DC blocking voltage TA=100 °C		50.0							
Typical junction capacitance (NOTE 1)	C _J	30.0							pF
Typical thermal resistance (NOTE 2)	R _{θJA}	50.0							°C/W
Operating junction and storage temperature range	T _J ,T _{STG}	-65 to +150							°C

Ratings and Characteristic Curves ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

FIG. 1- FORWARD CURRENT DERATING CURVE

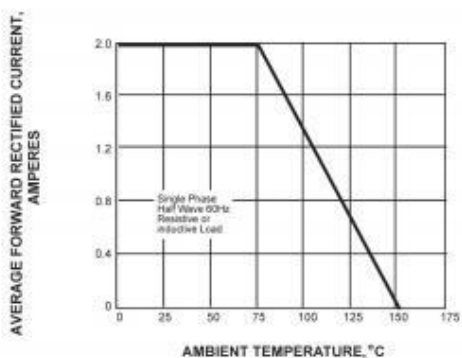


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

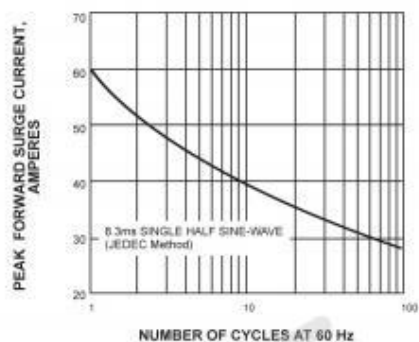


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

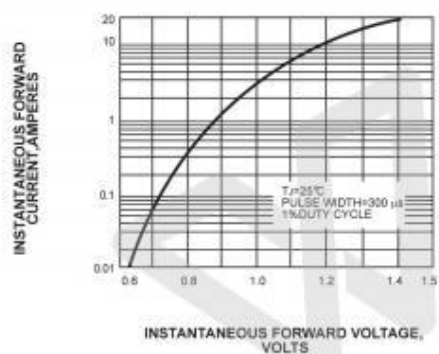
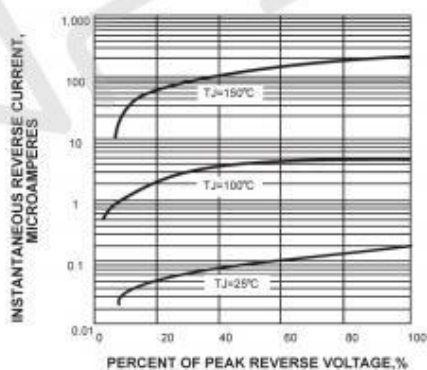
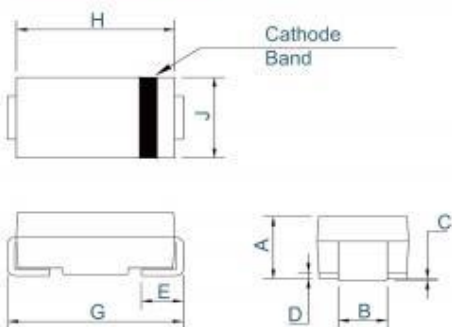


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



Dimensions

SMB-(DO-214AA)



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.083	0.096	2.13	2.44	
B	0.075	0.083	1.91	2.11	
C	0.002	0.008	0.051	0.203	
D	—	0.02	—	0.51	
E	0.030	0.060	0.76	1.52	
G	0.189	0.220	4.80	5.59	
H	0.160	0.185	4.06	4.70	
J	0.130	0.155	3.30	3.94	

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