



REVERSE VOLTAGE:1300-2000V
CURRENT: 1.0 A

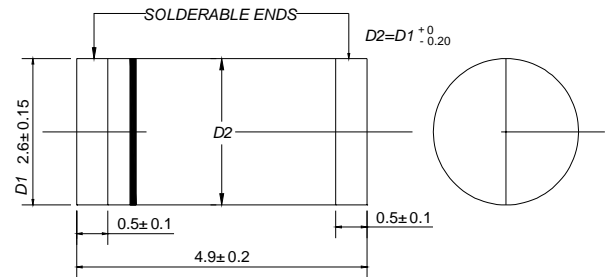
DO - 213AB

Features

- Glass passivated device
- Ideal for surface mouted applications
- Low leakage current
- Metallurgically bonded construction

Mechanical Data

- Case:JEDEC DO-213AB,molded plastic over passivated chip
- Polarity: Color band denotes cathode end
- Weight: 0.0046 ounces, 0.116 gram
- Mounting position: Any



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

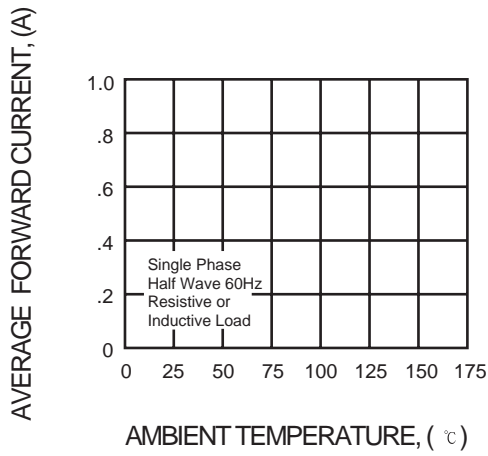
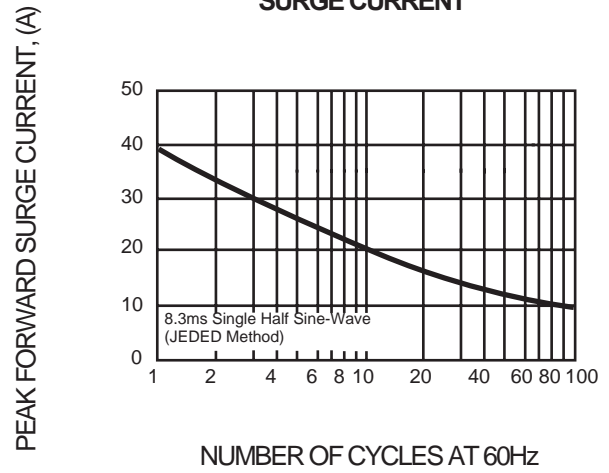
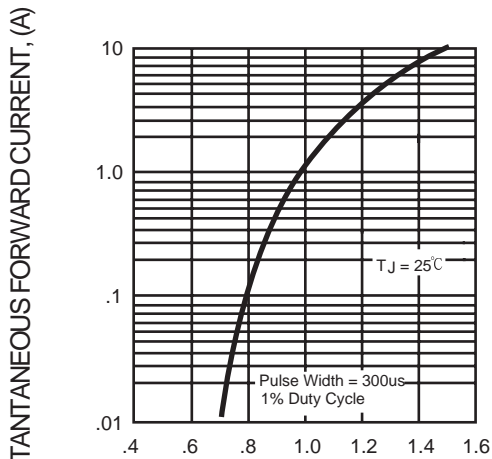
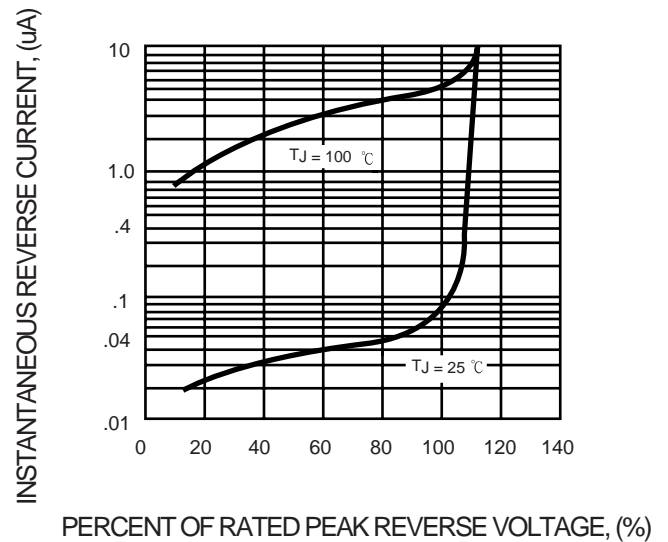
		SM 513	SM 516	SM 518	SM 2000	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	1300	1600	1800	2000	V
Maximum RMS voltage	V_{RMS}	910	1120	1260	1400	V
Maximum DC blocking voltage	V_{DC}	1300	1600	1800	2000	V
Maximum average forward rectified current $T_A=75$	$I_{(AV)}$	1.0				A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	40				A
Maximum forward voltage at 1.0A	V_F	1.1				V
Maximum DC reverse current @ $T_A=25$ at rated DC blockjng voltage @ $T_A=125$	I_R	5.0 50				μA
Typical junction capacitance (NOTE 1)	C_j	15				pF
Typical thermal resistance (NOTE 2)	$R_{j\theta L}$	20				/W
Typical thermal resistance (NOTE 3)	$R_{j\theta A}$	50				/W
Operating temperature range	T_j	- 55 --- + 175				
Storage temperature range	T_{STG}	- 55 --- + 175				

NOTES:1. Measured at 1.0MHz and applied average voltage of 4.0V DC.

2. Thermal resistance junction to lead, 6.0 mm² copper pads to each terminal.

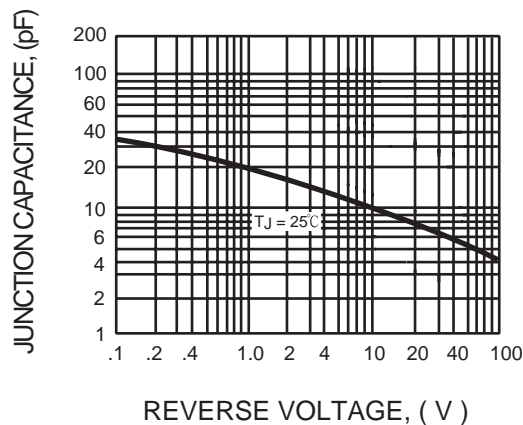
3. Thermal resistance junction to ambient, 6.0 mm² copper pads to each terminal.

Ratings AND Characteristic Curves

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

FIG. 4 - TYPICAL REVERSE CHARACTERISTICS


INSTANTANEOUS FORWARD VOLTAGE, (V)

PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

FIG. 5 - TYPICAL JUNCTION CAPACITANCE


PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
DO-213AB	5000/REEL	80000	36.0X35.8X36.5	18.00	16.00

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