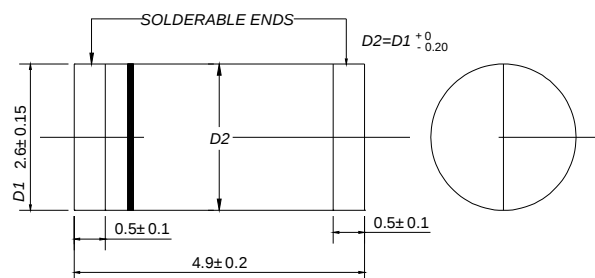



VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 3.0 A
DO - 213AB

Features

- ◇ Low cost
- ◇ Low leakage
- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ Easily cleaned with Alcohol, Isopropanol and similar solvents
- ◇ The plastic material carries U/L recognition 94V-0



Mechanical Data

- ◇ Case: JEDEC DO-213AB, MELF
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.0046 ounces, 0.116 grams
- ◇ Mounting position: Any

Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

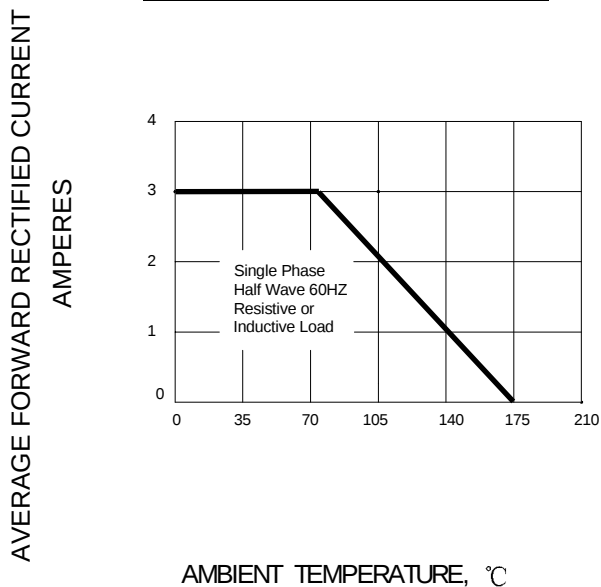
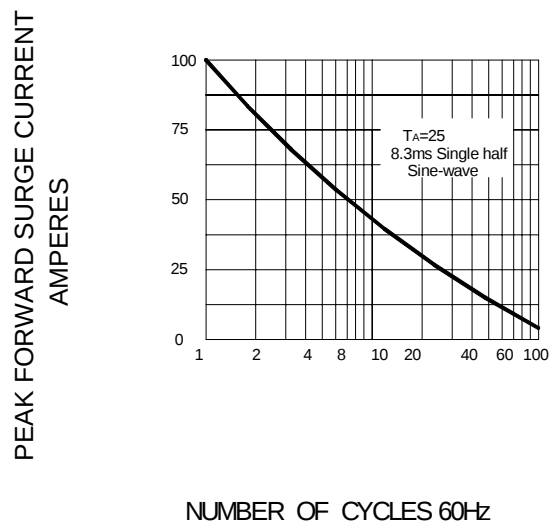
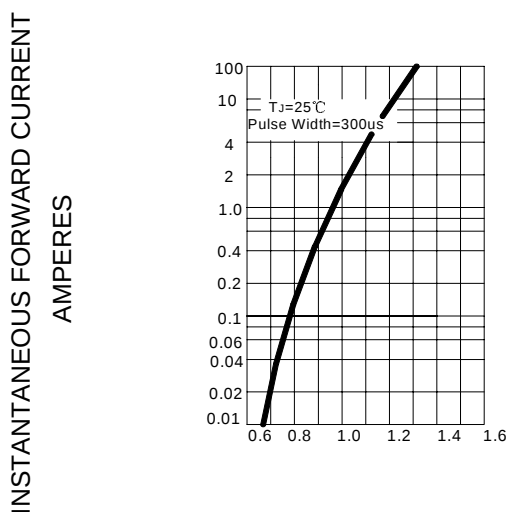
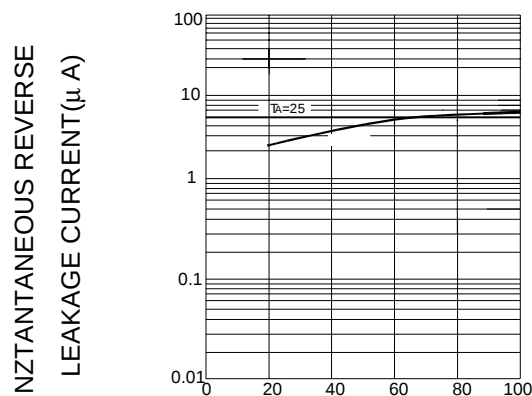
Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 50 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		SM 5400	SM 5401	SM 5402	SM 5403	SM 5404	SM 5405	SM 5406	SM 5407	SM 5408	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	V
Maximum average forward rectified current @ $T_A = 50^\circ\text{C}$	$I_{F(AV)}$	3.0									A
Peak forward surge current 10ms single half-sine-wave superimposed on rated load @ $T_A = 25^\circ\text{C}$	I_{FSM}	100									A
Maximum instantaneous forward voltage @ 3.0 A	V_F	1.2									V
Maximum reverse current at rated DC blocking voltage	I_R	10.0									μA
Typical thermal resistance junction to terminal	R_{thT}	10									K/W
Typical thermal resistance (Note1)	R_{thA}	40									K/W
Operating junction temperature range	T_J	- 50 ---- + 175									$^\circ\text{C}$
Storage temperature range	T_{STG}	- 50 ---- + 175									$^\circ\text{C}$

NOTE: 1. Thermal resistance from junction to ambient.

Ratings AND Characteristic Curves

FIG.1 – FORWARD DERATING CURVE

FIG.2 – PEAK FORWARD SURGE CURRENT

FIG.3 – TYPICAL FORWARD CHARACTERISTIC

FIG.4 – TYPICAL JUNCTION CAPACITANCE


INSTANTANEOUS FORWARD VOLTAGE, VOLTS

PERCENT OF RATED PEAK REVERSE VOLTAGE,%

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