

FEATURES

- Glass Passivated Die Construction
- Super-Fast Recovery Time For High Efficiency
- Low Forward Voltage Drop and High Current Capability
- Ideally Suited for Automated Assembly
- Plastic Material: UL Flammability Classification Rating 94V-0



DO-214AA (SMB)

MECHANICAL DATA

- Case: DO-214AA Molded plastic
- Terminals: Pure tin plated, lead free
- Polarity: Indicated by cathode band
- Weight: 93mg (approx.)



Cathode

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

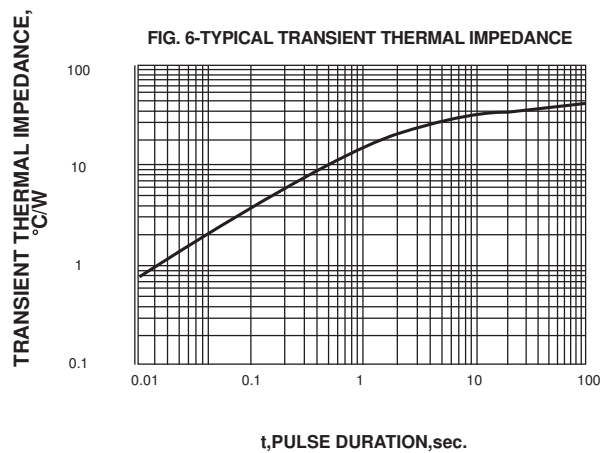
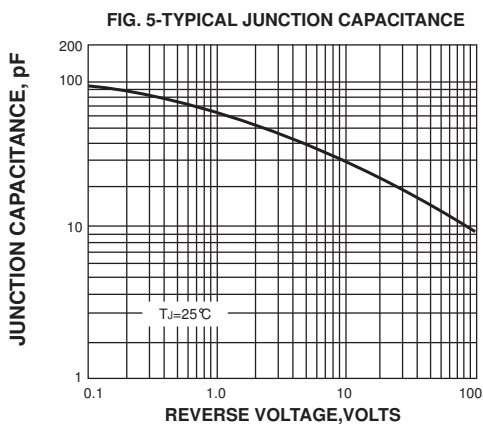
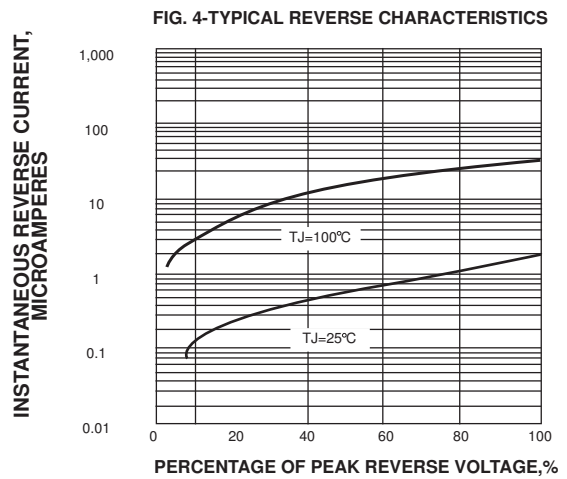
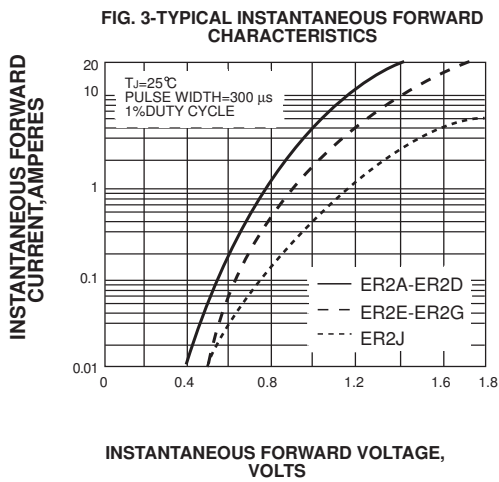
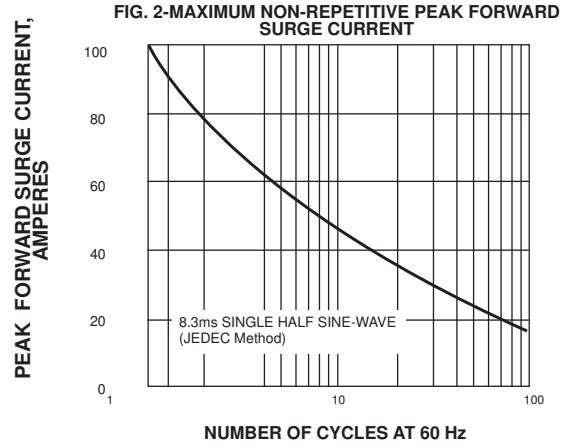
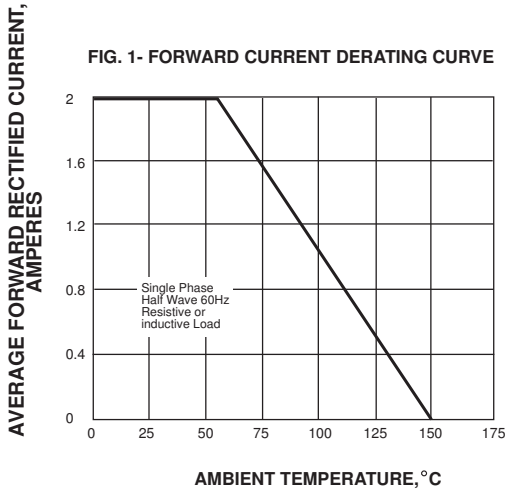
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

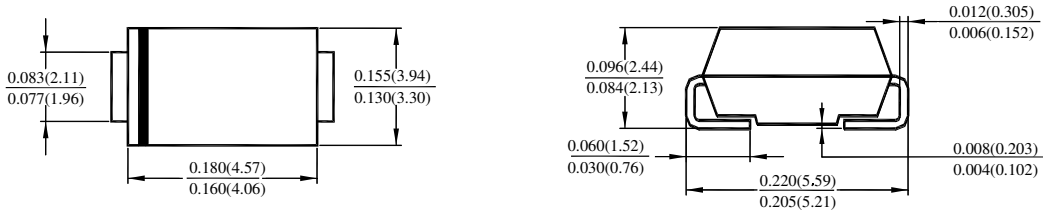
Parameter	Symbol	ER2A	ER2B	ER2C	ER2D	ER2E	ER2G	ER2J	ER2K	ER2M	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	105	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	150	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_A = 75\text{ }^\circ\text{C}$	$I_{F(AV)}$	2.0									A
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC)	I_{FSM}	50.0									A
Maximum Instantaneous Forward Voltage at 2 A	V_F	0.975			1.35			1.7			V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_A = 25\text{ }^\circ\text{C}$									μA
		$T_A = 100\text{ }^\circ\text{C}$									
Maximum reverse recovery time (NOTE1)	t_{rr}	50			60			100			nS
Typical Junction Capacitance (NOTE2)	C_J	25.0									pF
Maximum Thermal Resistance (NOTE3)	$R_{\theta JL}$	20.0									$^\circ\text{C/W}$
Operating and Storage Temperature Range	$T_{J, TS}$	-50 to +150									$^\circ\text{C}$

Note: 1.Reverse recovery condition $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$

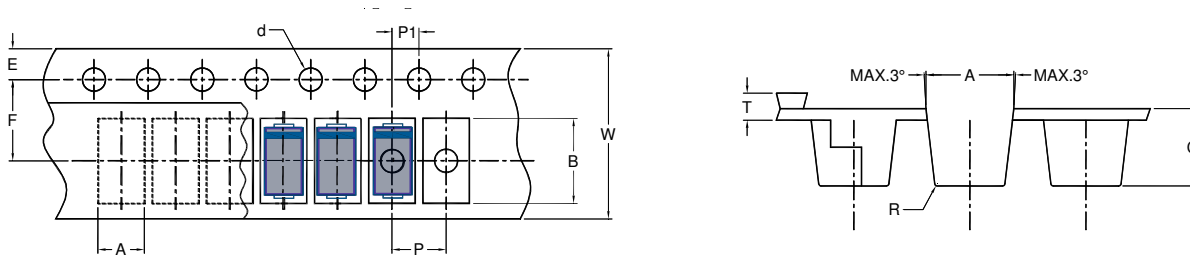
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

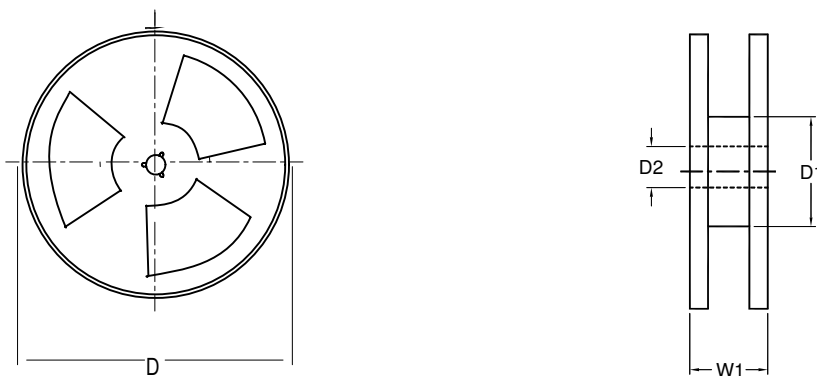


SMB Package Outline Dimensions


(DIMENSIONS ARE IN MILLIMETER)

SMB Embossed Carrier Tape


DIMENSIONS ARE IN MILLIMETER											
TYPE	A	B	C	d	E	F	P	P0	P1	T	W
SMB	3.65	5.69	2.67	1.5	1.5	5.65	8	4	2	0.6 Max	12
TOLERANCE	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.1	±0.1	±0.1	±0.2	±0.2

SMB Reel


DIMENSIONS ARE IN MILLIMETER				
REEL OPTION	D	D1	D2	W1
7" DIA	178	50 min	13	16.8
TOLERANCE	±2	±0.1	±0.5	±2