



ES2A THRU ES2M

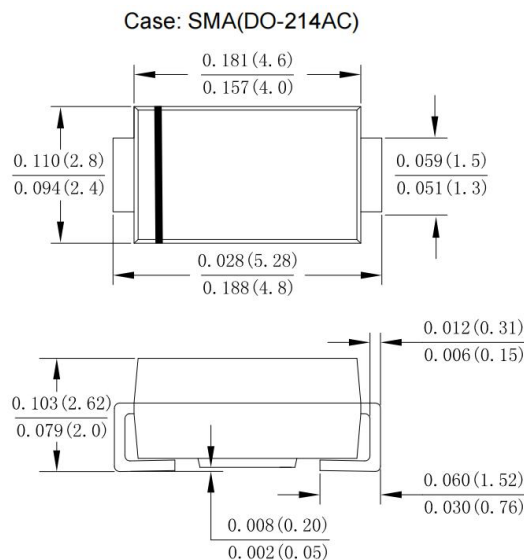
Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Amperes

■ FEATURES

- * For surface mounted applications
- * Ultra fast switching for high efficiency
- * Low reverse leakage
- * Built-in strain relief, ideal for automated placement
- * High forward surge current capability
- * High temperature soldering guaranteed:
250 C/10 seconds at terminals

■ MECHANICAL DATA

- * Case: Molded plastic SMA
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight :0.058 grams



■ MAXIMUM RATINGS(Ta=25℃ Unless otherwise specified)

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

		SYMBOLS	ES2A	ES2B	ES2D	ES2G	ES2J	ES2K	ES2M	UNITS
Maximum repetitive peak reverse voltage		VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage		VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage		VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=55 C		I(AV)	2.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	50.0							Amps
Maximum instantaneous forward voltage at 2.0A		VF	1.0			1.3	1.7			Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C TA=100 C	IR	5.0 200.0							uA
Maximum reverse recovery time (NOTE 1)		trr	35					75		ns
Typical junction capacitance (NOTE 2)		CJ	20.0							pF
Typical thermal resistance (NOTE 3)		RqJA	50.0							°C/W
Operating junction and storage temperature range		TJ,TSTG	-65 to +150							°C

Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A

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

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



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■ TYPICAL CHARACTERISTICS

Fig. 1 Forward Current Derating Curve

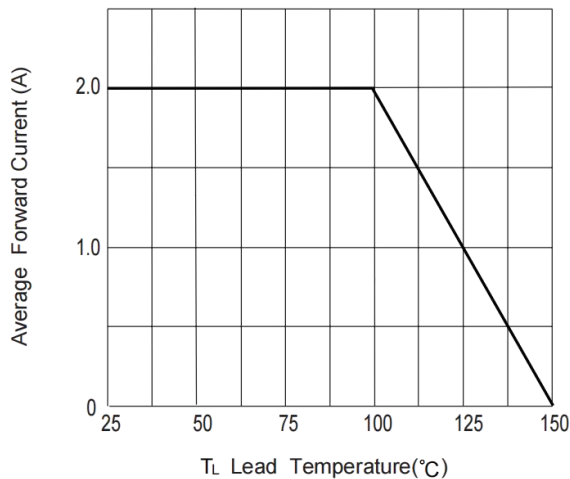


Fig. 2 Typ. Forward Characteristics

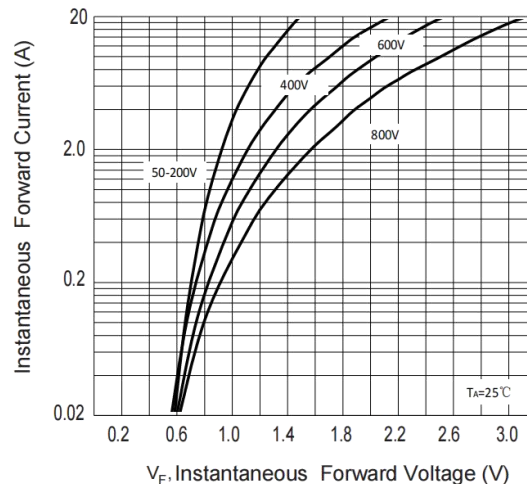


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

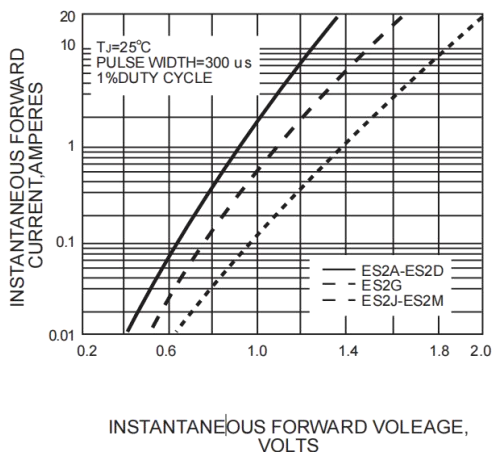


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

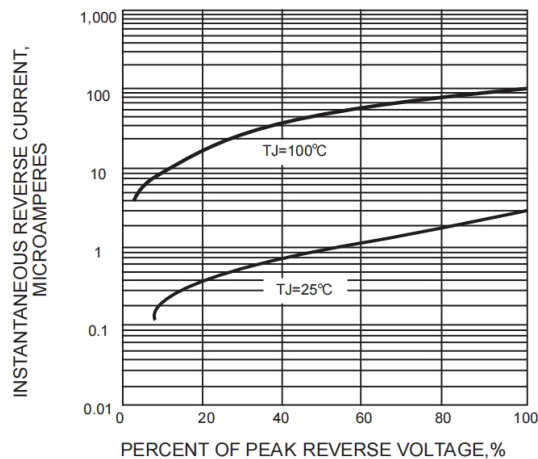


FIG. 5-TYPICAL JUNCTION CAPACITANCE

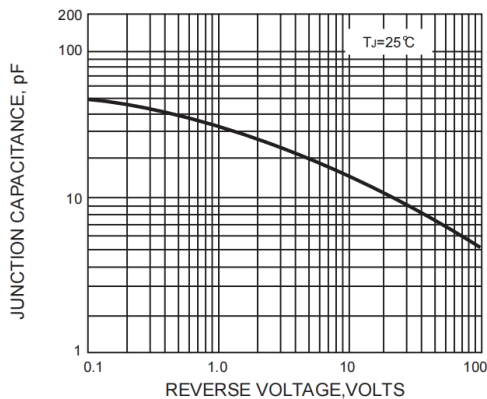


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

