CURRENT 2.0 Ampere
VOLTAGE RANG 50 to 600 Volts

ES2AB THRU ES2JB

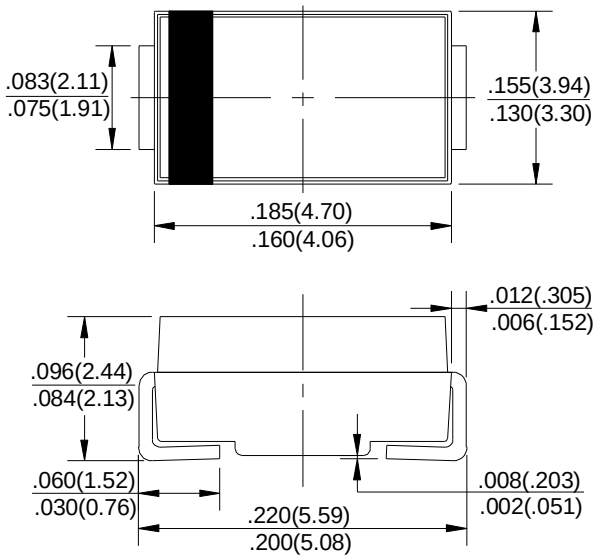
FEATURES

Plastic package has Underwrites Laboratory Flammability Classification 94V-0
Glass passivated chip junction
Built-in strain relief
Super Fast switching speed for high efficiency
High temperature soldering guaranteed:
250 /10 seconds

MECHANICAL DATA

Case: JEDED DO-214AA transfer molded plastic
Terminals: Solder plated, Solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Weight: 0.003 ounce, 0.093 gram

DO-214AA (SMB)



Dimensions in inches and (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%.

	SYMBOLS	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage	V_{RMS}	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current at T_L=100	$I_{(AV)}$	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	50							Amps
Maximum Instantaneous Forward Voltage @ 2.0A	V_F	0.95			1.25	1.7			Volts
Maximum DC Reverse Current at rated DC Blocking voltage per element T_A=25	I_R	5.0							A
Maximum DC Reverse Current at rated DC Blocking voltage per element T_A=125	I_R	200							A
Maximum Reverse Recovery Time Test conditions I_F=0.5A, I_R=1.0A, I_{RR}=0.25A	t_{rr}	35							nS
Typical Junstion Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C_J	25				208			pF
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	75							/W
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$	17							/W
Operating Junction Temperature Range	T_J	(-55 to +150)							
Storage Tempetature Rang	T_{STG}	(-55 to +150)							

Notes:
1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with 0.3"×0.3"(8.0mm × 8.0mm) copper pad areas.

CURRENT 2.0 Ampere
VOLTAGE RANG 50 to 600 Volts

ES2AB THRU ES2JB

RATING AND CHRACTERISTIC CURVES ES2A Thru ES2J

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

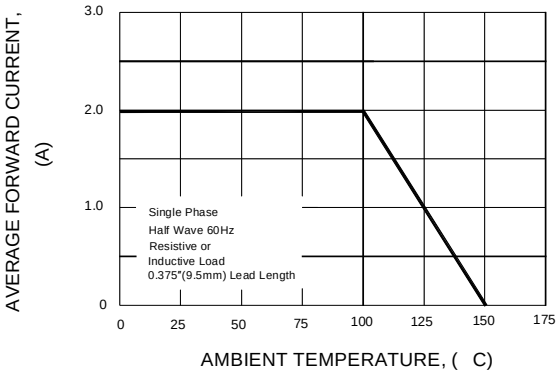


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

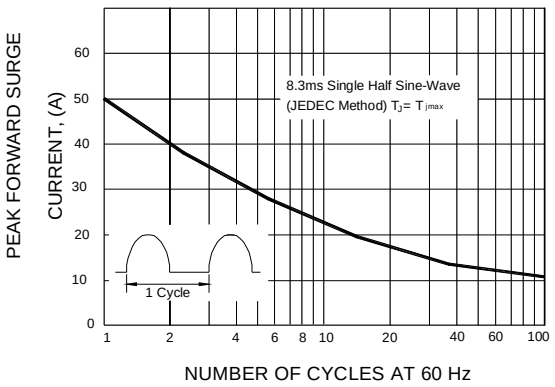


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

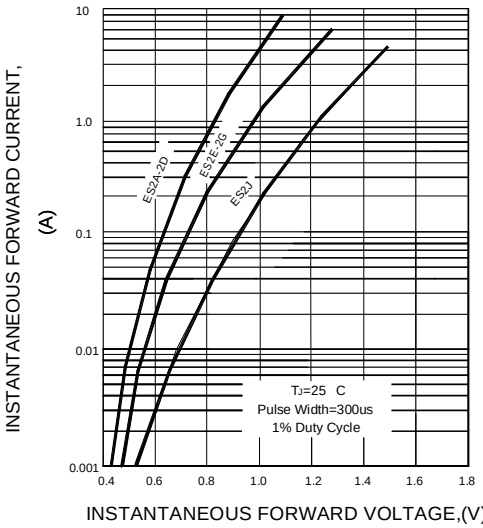


FIG.4-TYPICAL REVERSE CHARACTERISTICS

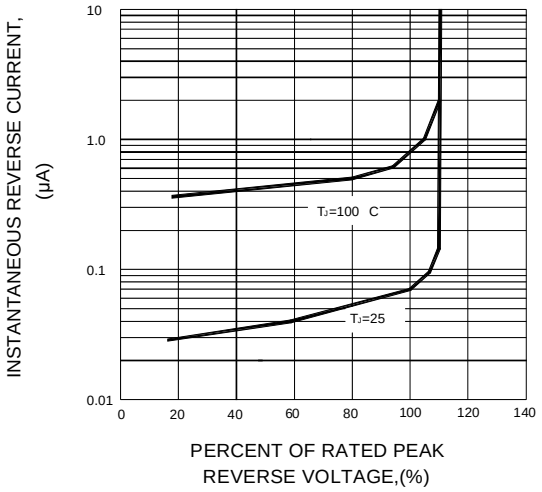
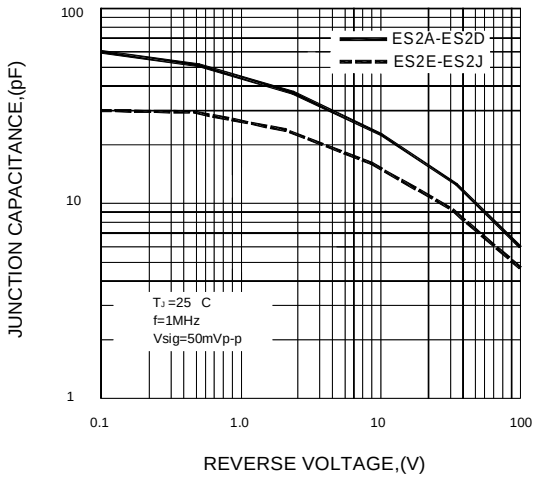
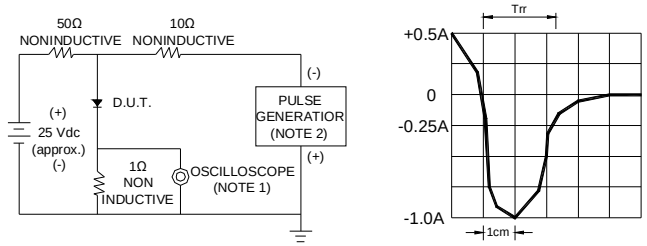


FIG.5-TYPICAL JUNCTION CAPACITANCE



F1G.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES : 1.Rise Time=7ns max. Input Impedance= 1 magohm. 22pF
2.Rise time=10ns max. Source Impedance= 50 ohms

SET TIME BASE FOR 50/100ns/cm