



PINGWEI ENTERPRISE

ES1A THRU ES1J

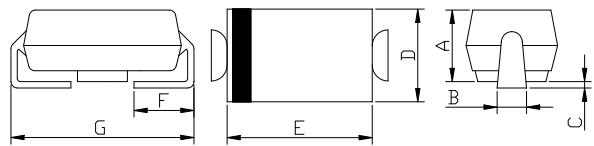
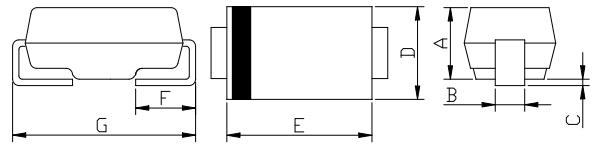
1.0AMP. SUPER FAST SURFACE MOUNT RECTIFIER

FEATURE

- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed: 260°C/10 seconds at terminals.
- . Superfast recovery time for high efficiency.
- . For surface mounted application.
- . Easy pick and place.

MECHANICAL DATA

- . Case: Molded plastic
- . Epoxy: UL94V-0 rate flame retardant
- . Lead: MIL-STD- 202E, Method 208 guaranteed
- . Polarity:Color band denotes cathode end
- . Packaging:12mm tape per EIA STD RS-481
- . Mounting position: Any

Fig1: SMA/DO-214AC*
FOR OPEN JUNCTION DICE PACKAGING OUTLINEFig2: SMA/DO-214AC
FOR GLASS PASSIVATED DICE PACKAGING OUTLINE

NO	Fig1 (mm)	Fig2 (mm)
A	1.9~2.4	1.98~2.3
B	1.2~1.8	1.35~1.6
C	0.23MAX	0.2MAX
D	2.4~2.9	2.4~2.9
E	3.8~4.6	3.8~4.6
F	0.8~1.8	0.8~1.8
G	4.8~5.8	4.8~5.8

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz,resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	SYM BOL	ES1A	ES1B	ES1D	ES1G	ES1J	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	V
Maximum DC blocking Voltage	V_{DC}	50	100	200	400	600	V
Maximum Average Forward Rectified Current at $T_A=55^\circ C$	$I_{F(AV)}$	1.0					A
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load (JEDEC method)	I_{FSM}	30.0					A
Maximum Forward Voltage at 1.0A DC	V_F	0.95		1.3	1.7		V
Maximum DC Reverse Current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=100^\circ C$	I_R	5.0 100.0					μA
Maximum Reverse Recovery Time (Note 1)	t_{rr}	35					nS
Typical Junction Capacitance (Note 2)	C_J	10		8			pF
Typical Thermal Resistance (Note 3)	$R_{(JA)}$	85					$^\circ C / W$
Storage Temperature	T_{STG}	-55 to +150					$^\circ C$
Operation Junction Temperature	T_J	-55 to +150					$^\circ C$

Note:

1. Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Measured on P.C.Board with $0.2 \times 0.2''$ (5.0×5.0 mm)Copper Pad Areas.

RATING AND CHARACTERISTIC CURVES (ES1A THRU ES1J)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

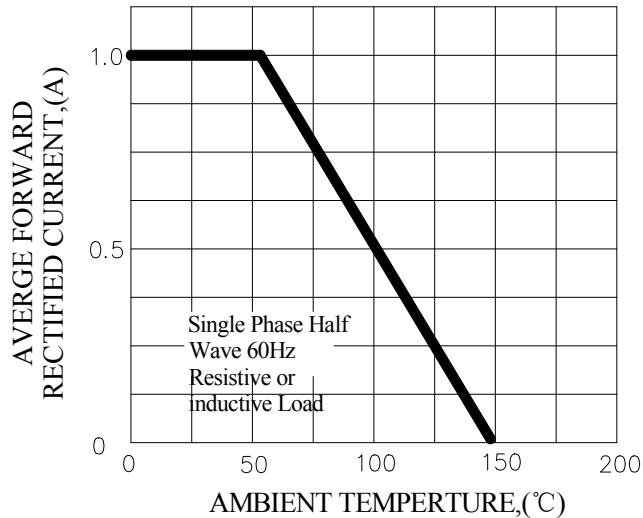


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

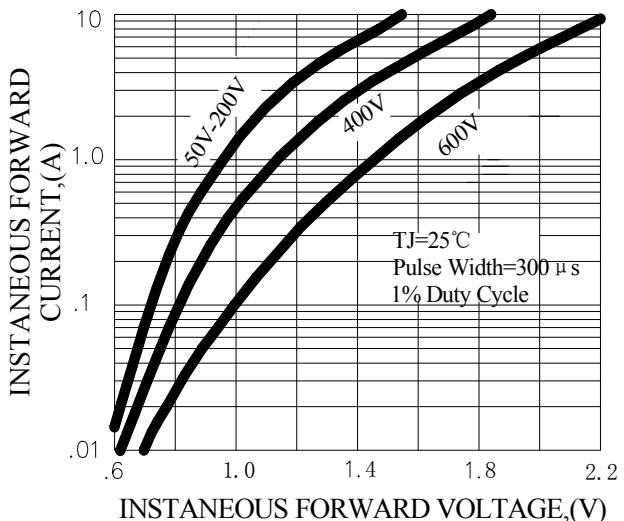


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

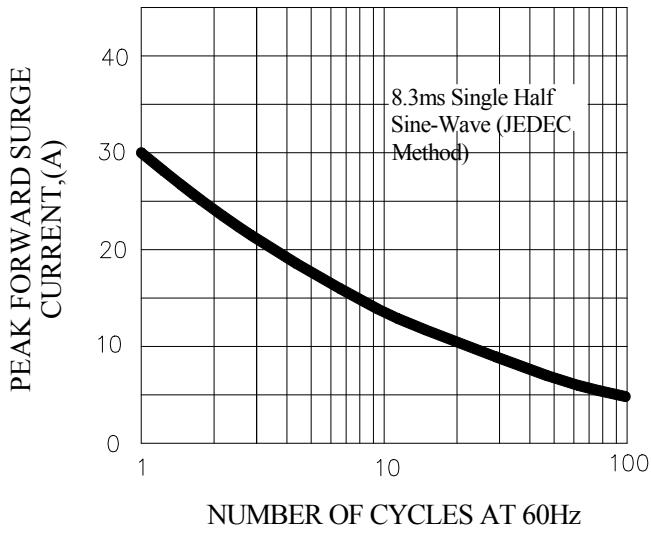


FIG.4-TYPICAL REVERSE CHARACTERISTICS

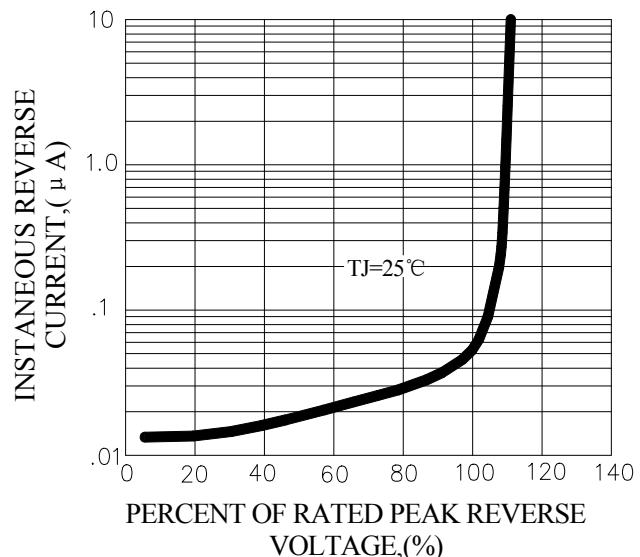
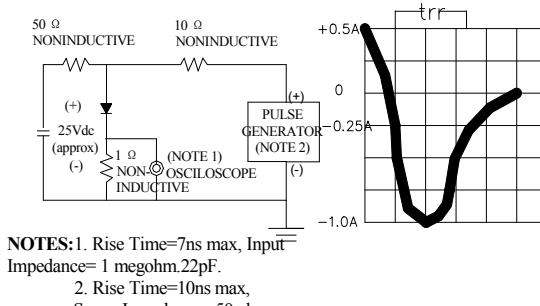


FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



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