CC ®

REVERSE VOLTAGE 50 to 600 Volts FORWARD CURRENT 2.0 Ampere

FEATURES

For surface mounted applications Low profile package Glass passivated chip junction Superfast reverse recovery time Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

Case: SMAF Terminals: Solderable per MIL-STD-750, Method 2026 Approx.Weight: 27mg / 0.00095oz

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

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1- Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with $2.0 \times 2.0^{"}$ (5.0 \times 5.0cm)
copper pad areas.

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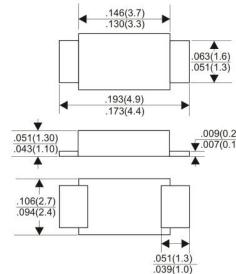
Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099 Website: www.kingtronics.com

For capacitive load derate current by 20%								ci 3 <i>j</i>		
PARAMETER		SYMBOL	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J	UNIT
Maximum Repetitive Peak Reverse Voltage		Vrrm	50	100	150	200	300	400	600	VOLTS
Maximum RMS Voltage		Vrms	35	70	105	140	210	280	420	VOLTS
Maximum DC Blocking Voltage		VDC	50	100	150	200	300	400	600	VOLTS
Maximum Average Forward Rectified Current At T_A =125 °C		I _(AV)	2.0						Amps	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		Ігѕм	50						Amps	
Maximum instantaneous forward voltage per at 2.0A		V_{F}	1 1.25 1.				1.7	VOLTS		
Maximum DC Reverse Current at Rated DC blocking voltage	T _A =25℃	IR	5.0 100							- uA
	T _A =125℃	IR								
Maximum Reverse Recovery Time Test conditions $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$		t _{rr}	30						nS	
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)		CJ	30						pF	
Typical Thermal Resistance		Reja	65						°CW	
		RθJL	20							
Operating Junction Temperature		TJ	-55 to +150						°C	
Storage Temperature Rang		Tstg	-55 to +150							°C

.146(3.7) .130(3.3) .063(1.6 .051(1.3) .193(4.9) .173(4.4) .009(0.23) .051(1.30) .007(0.18) 106(2.7 .094(2.4)

SURFACE MOUNT SUPER FAST RECOVERY RECTIFIER

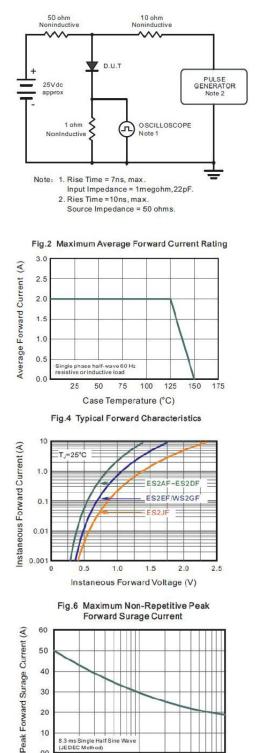
SMAF

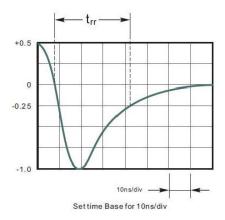


ES2A THRU

R

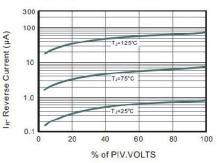
RATINGS AND CHARACTERISTIC CURVES



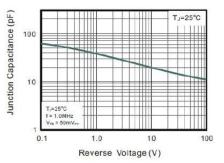


ES2A THRU ES2

Fig.3 Typical Reverse Characteristics









8.3 ms Single Half Sine Wave (JEDEC Method)

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Number of Cycles

10

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