Kingtronics®

ER2A THRU ER2

SURFACE MOUNT SUPER FAST RECOVERY RECTIFIER 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

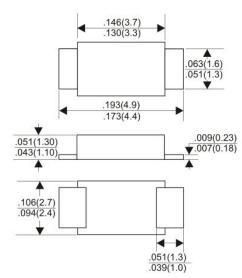
Case: SMAF

Terminals: Solderable per MIL-STD-750,

Method 2026

Approx.Weight: 27mg / 0.00095oz

SMAF



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Tar canceitive lead derete current by 200/

For capacitive load derate current by 20%

Dimensions in inches and (millimeters)

SYM	MBOL	ER2A	ER2B	ER2C	ER2D	ER2E	ER2G	ER2J	UNIT
VR	RRM	50	100	150	200	300	400	600	VOLTS
VR	RMS	35	70	105	140	210	280	420	VOLTS
V	/ _{DC}	50	100	150	200	300	400	600	VOLTS
I	I _(AV)	2.0							Amps
wave I _F	I _{FSM} 50						Amps		
V	V _F	1			1.25		1.7	VOLTS	
		5.0							uA
	IR	100							
t	t _{rr}	30							nS
MHz C	CJ	30					pF		
Re	ЮЈА	65							· °C/W
Re	Rejl	20							
Т	TJ	-55 to +150						$^{\circ}$ C	
Ts	STG	-55 to +150						°C	
0	V V V V V V V V V V V V V V V V V V V	TFSM A V _F IR t _{rr} OMHz C _J Reja Rejl T _J Tstg	VRMM 50 VRMS 35 VDC 50 I(AV) -wave IFSM A VF IR trr OMHz CJ Rejja Rejja Rejja Tstg	VRRM 50 100 VRMS 35 70 VDC 50 100 I(AV) -wave IFSM A VF IR Trr OMHz CJ Reja Reja Rejl TJ TSTG	VRRM 50 100 150 VRMS 35 70 105 VDC 50 100 150 I(AV) -WAVE IFSM A VF 1 IR trr OMHz CJ Rejja Rejja TJ TSTG -5.	VRMM 50 100 150 200 VRMS 35 70 105 140 VDC 50 100 150 200 I(AV) 2.0 -WAVE IFSM 50 A VF 1 IR 5.0 OMHz CJ 30 Rejja 65 Rejj 20 Tj -55 to +15 TSTG 50 100 150 200	VRMS 35 100 150 200 300 VRMS 35 70 105 140 210 VDC 50 100 150 200 300 I(AV) 2.0 -wave IFSM 50 A	VRRM 50 100 150 200 300 400 VRMS 35 70 105 140 210 280 VDC 50 100 150 200 300 400 IGAN IGAN 2.0 300 400 AA VF 1 1.25 IR 100 100 100 OMHz CJ 30 Reja 65 65 Reju 20 20 TJ -55 to +150 TSTG -55 to +150	VRRM 50 100 150 200 300 400 600 VRMS 35 70 105 140 210 280 420 VDC 50 100 150 200 300 400 600 I(AV) 2.0 2.0 -Wave IFSM 50 A VF 1 1.25 1.7 IR 100 100 1.25 1.7 OMHz CJ 30 30 30 ReJA 65 65 65 ReJL 20 20 7 TSTG -55 to +150 -55 to +150

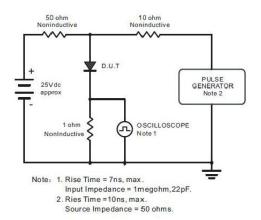
¹⁻ Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with $2.0 \times 2.0''$ (5.0 \times 5.0cm) copper pad areas.

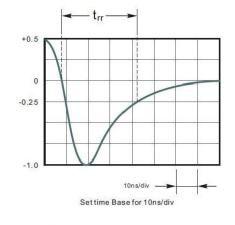
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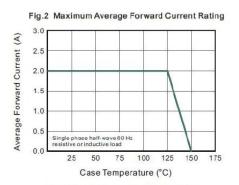
Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

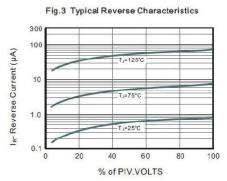
ER2A THRU

RATINGS AND CHARACTERISTIC CURVES









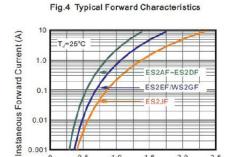
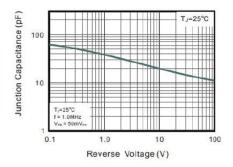
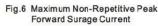


Fig.5 Typical Junction Capacitance

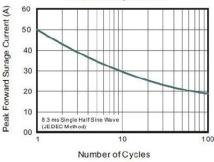




Instaneous Forward Voltage (V)

1.5

2.0



Note: Specifications are subject to change without notice.

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