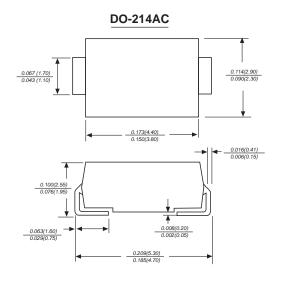
ES1A THRU ES1J

SURFACE MOUNT SUPER FAST RECTIFIER

Reverse Voltage - 50 to 600 Volts Forward Current - 1.0 Ampere



FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Super 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: 260°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.002 ounce, 0.07 grams

Dimensions in inches and (millimeters)

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 current derate by 20%.

	SYMBOLS	ES1A	ES1B	ES1C	ES1D	ES1E	ES1G	ES1J	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	150	200	300	400	600	V
Maximum RMS voltage	VRMS	35	70	105	140	210	280	420	V
Maximum DC blocking voltage	VDC	50	100	150	200	300	400	600	V
Maximum average forward rectified current at TL=90°C	l(AV)	1.0						А	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	IFSM				30.0				A
Maximum instantaneous forward voltage at 1.0A	VF	0.95		1.25		1.7	V		
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lr	5.0 50.0						μА	
Maximum reverse recovery time (NOTE 1)	trr	35						ns	
Typical junction capacitance (NOTE 2)	Cı	15.0						pF	
Typical thermal resistance (NOTE 3)	RθJA	70.0						°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C

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

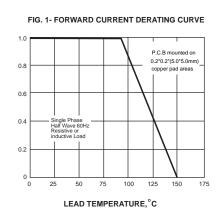
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

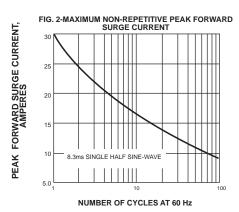
3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

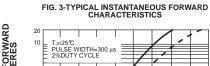


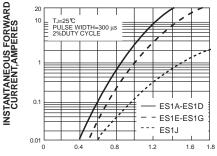
RATINGS AND CHARACTERISTIC CURVES ES1A THRU ES1J



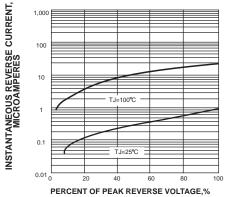












INSTANTANEOUS FORWARD VOLTAGE.

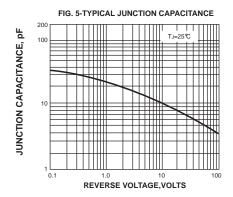
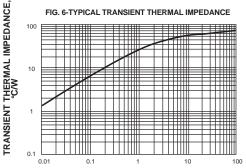


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



t.,PULSE DURATION,sec.



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