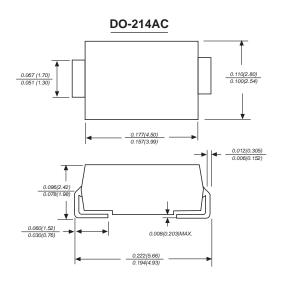
ES1A THRU ES1J

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	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 TL=55°C	l(AV)				1.0	-			Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм				30.0				Amps
Maximum instantaneous forward voltage at 1.0A	VF		0.95		1.25		1.7	Volts	
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	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	60.0						°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +150						°C	

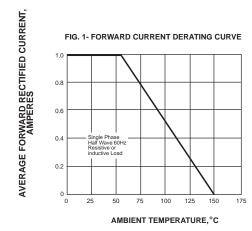
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

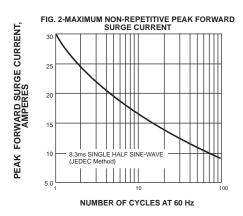
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

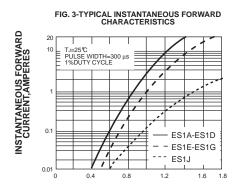
3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



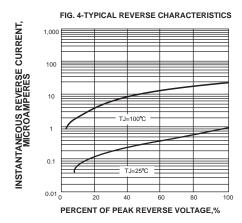
RATINGS AND CHARACTERISTIC CURVES ES1A THRU ES1J

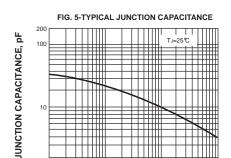






INSTANTANEOUS FORWARD VOLTAGE.

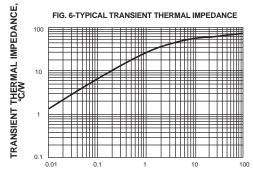




1.0

REVERSE VOLTAGE, VOLTS

0.1



t.,PULSE DURATION,sec.



100

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CRS12(T5L,TEMQ) ACGRB207-HF CLH07(TE16L,Q) CLH03(TE16L,Q) ACGRC307-HF ACEFC304-HF NTE6356 NTE6359 85HFR60
40HFR60 70HF120 85HFR80 D126A45C SCF7500 D251N08B SCHJ22.5K SM100 SCPA2 SDHD5K VS-12FL100S10 ACGRA4001-HF ACURA107-HF D1821SH45T PR D1251S45T NTE6358 NTE5850 NTE5819 NTE5837 NTE5892