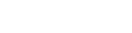
ES1AW THRU ES1JW

SURFACE MOUNT SUPERFAST RECOVERY RECTIFIER

REVERSE VOLTAGE: FORWARD CURRENT:

50 to 600 VOLTS 1.0 AMPERE

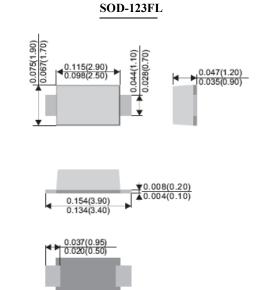


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications
- · Low profile package
- · Easy pick and place
- · Built-in strain relief
- · Low forward voltage drop
- \cdot High temperature soldering : 250°C /10 seconds at terminals

MECHANICAL DATA

Case: Molded plastic, SOD-123FL Terminals: Solder plated, solderable per MIL-STD-750, method 2026 guaranteed Polarity: Color band denotes cathode end Packaging: 12mm tape per EIA STD RS-481



比

HORNBY ELECTRONIC

雪

3

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, $60H_Z$, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	ES1AW	ES1BW	ES1DW	ES1GW	ES1JW	Units
Marking Code		E1	E2	E3	E4	E5	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	Volts
Maximum Average Forward Rectified Current	Т	1.0					Amp
See Fig.2	I _(AV)						
Peak Forward Surge Current,							
8.3ms single half-sine-wave	I _{FSM} 30						Amp
superimposed on rated load (JEDEC method)							
Maximum Forward Voltage at 1.0A	V _F		0.95		1.25	1.70	Volts
Maximum Reverse Current at T _A =25°C	I _R 5.0 100						μAmp
at Rated DC Blocking Voltage T _A =100°C							
Typical Junction Capacitance (Note 1)	CJ	15					pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	35					°C/W
Maximum Reverse Recovery Time (Note 3)	T _{RR}	35					nS
Operating Junction Temperature Range	T _J	-55 to +150					ĉ
Storage Temperature Range	Tstg	-55 to +150					ĉ

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

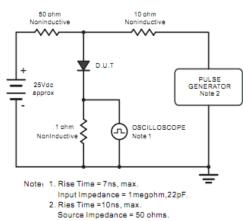
2- P.C.B. mounted with 5.0 x 5.0mm copper pad areas.

3- Reverse Recovery Test Conditions: I_F =.5A, I_R =1A, I_{RR} =.25A.



RATINGS AND CHARACTERISTIC CURVES

Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram



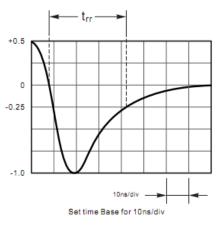
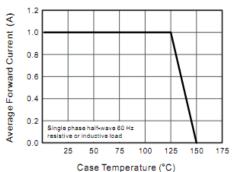
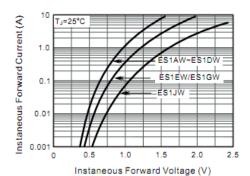


Fig.2 Maximum Average Forward Current Rating









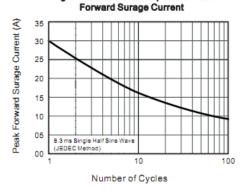


Fig.3 Typical Reverse Characteristics

