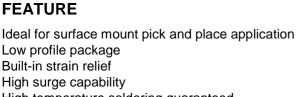
# ES1D-E

## SURFACE MOUNT FAST ULTRAFAST RECTIFIER

VOLTAGE: 200V

CURRENT: 1.0A

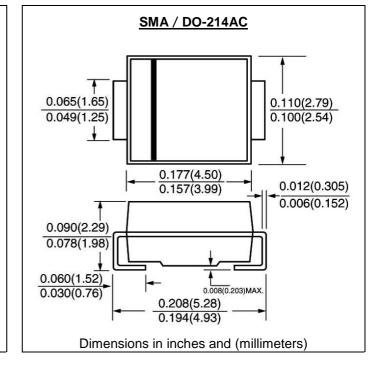




High temperature soldering guaranteed 260°C/10sec/at terminals Glass passivated chip Ultrafast recovery time for high efficiency Halogen Free

### **MECHANICAL DATA**

Terminal: Solder plated, solderable per MIL-STD-750, Method 2026 Case: JEDEC DO-214AC molded plastic body over passivated chip Polarity: Color band denotes cathode



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

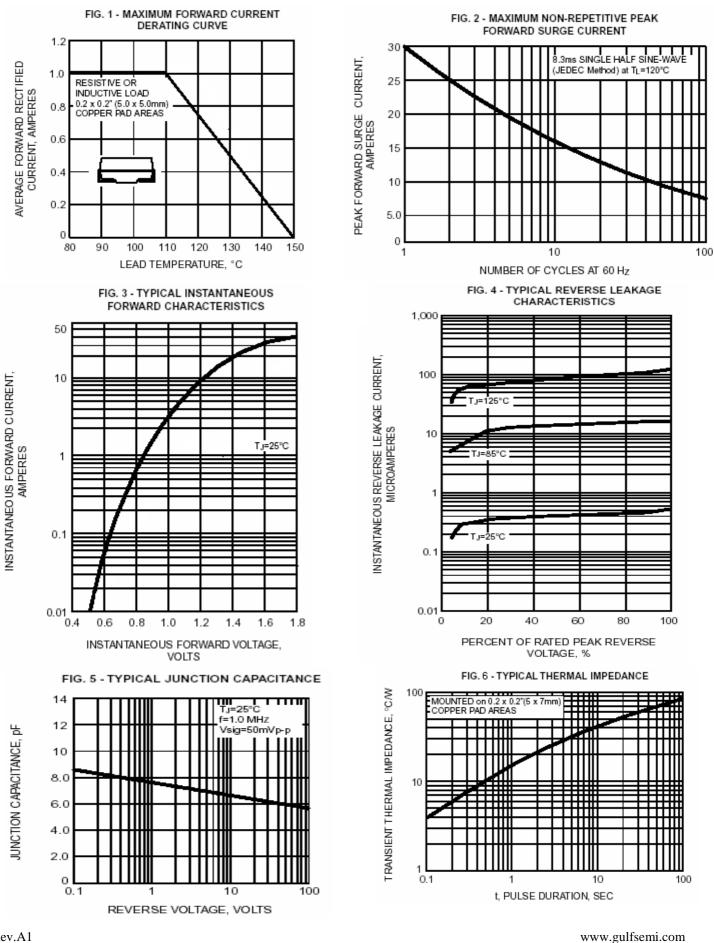
	SYMBOL	ES1D-E	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	V
Maximum RMS Voltage	Vrms	140	V
Maximum DC blocking Voltage	Vdc	200	V
Maximum Average Forward Rectified Current 3/8"lead length at $T_L$ =110 $^{\circ}$ C	lf(av)	1.0	А
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load	lfsm	30.0	A
Maximum Forward Voltage at rated forward current	Vf	0.92	V
Maximum DC Reverse CurrentTa =25°Cat rated DC blocking voltageTa =125°C	lr	10.0 100.0	μA
Maximum Reverse Recovery Time (Note1)	Trr	15	nS
Typical Junction Capacitance (Note 2)	Cj	18.0	pF
Typical Thermal Resistance (Note 3)	Rth(jl)	30.0	°CM
Storage and Operating Junction Temperature	Tstg, Tj	-50 to +150	°C

Note:

1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

3. Thermal Resistance from Junction to terminal mounted on 5 $\times$ 5mm copper pad area



#### **RATINGS AND CHARACTERISTIC CURVES ES1D-E**