

## ES2AA THRU ES2MA

**REVERSE VOLTAGE 50V~1000V  
FORWARD CURRENT 2.0AMP  
SUPER FAST RECOVERY RECTIFIER**

### FEATURES

- \* For surface mount applications
- \* Glass passivated chip junction
- \* Low profile package
- \* Super fast recovery time for high efficiency

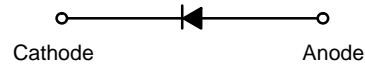
DO- 214AC

SMA



### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V- 0 rate flame retardant
- \* Polarity: Color band denotes cathode end
- \* Weight: 0.064 grams



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	ES2AA	ES2BA	ES2CA	ES2DA	ES2FA	ES2GA	ES2JA	ES2KA	ES2MA	UNITS
Maximum Repetitive Peak Reverse Voltage	50	100	150	200	300	400	600	800	1000	V
Maximum RMS Voltage	35	70	105	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	150	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current See Fig. 1	2.0									A
Peak Forward Surge Current, 8.3 ms single half sine- wave superimposed on rated load (JEDEC method)	50									A
Maximum Instantaneous Forward Voltage at 2.0A	0.92			1.25		1.7				V
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta=25°C				5.0				uA	
	Ta=125°C				350					
Maximum reverse Junction recovery time at If = 0.5A, Ir = 1.0A	25									nS
Typical Junction Capacitance (Note1)	25									pF
Operating Temperature Range Tj	- 55 — +150									°C
Storage Temperature Range Tstg	- 55 — +150									°C

#### NOTES

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



# ES2AA ~ ES2MA

## Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

FIG.1 - FORWARD CURRENT DERATING CURVE

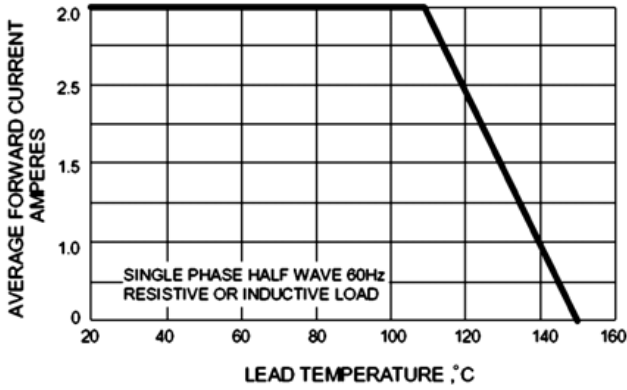


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

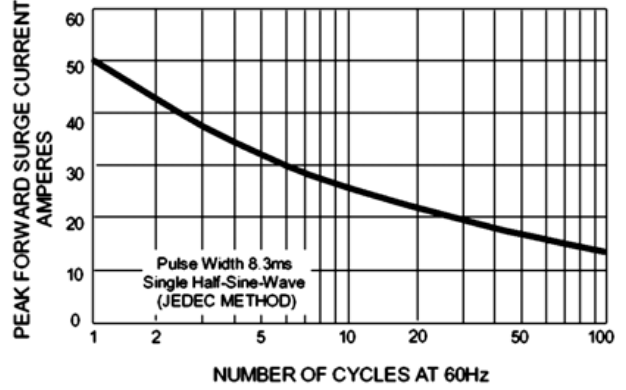


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

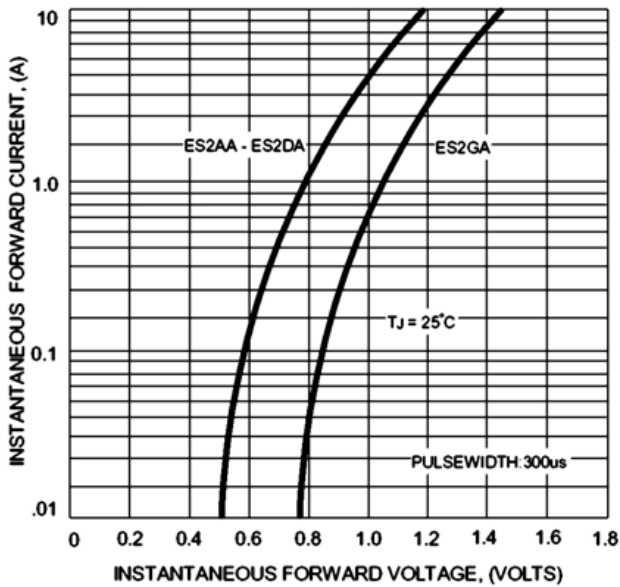
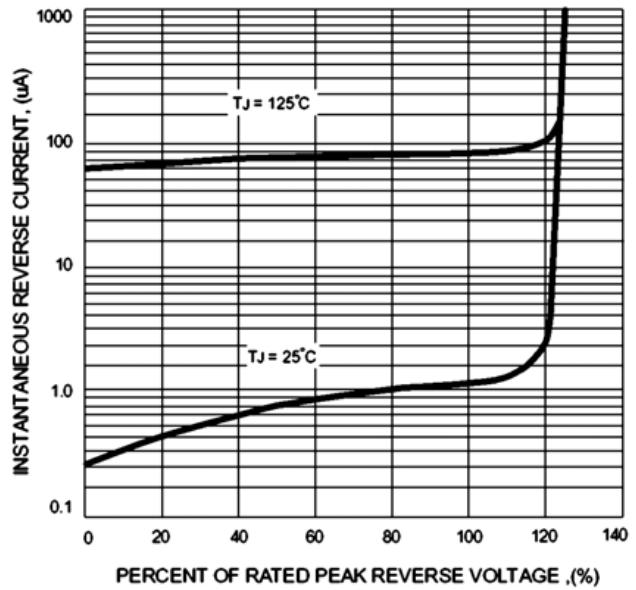


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



## Package Dimensions in inches and (millimeters)

