ES2AA THRU ES2MA

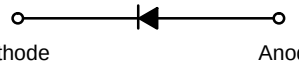
REVERSE VOLTGE 50V~1000V
FORWARD CURRENT 2.0AMP
SUPER FAST RECOVERY RECTIFIER

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 Ta=25°C	5.0									uA
at Rated DC Blocking Voltage Ta=125°C	350									uA
Maximum reverse Junction recovery time at I_F = 0.5A, I_R = 1.0A	25									nS
Typical Junction Capacitance (Note1)	25									pF
Operating Temperature Range T_J	- 55— +150									°C
Storage Temperature Range T_{STG}	- 55— +150									°C

NOTES

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

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

FIG.1 - FORWARD CURRENT DERATING CURVE

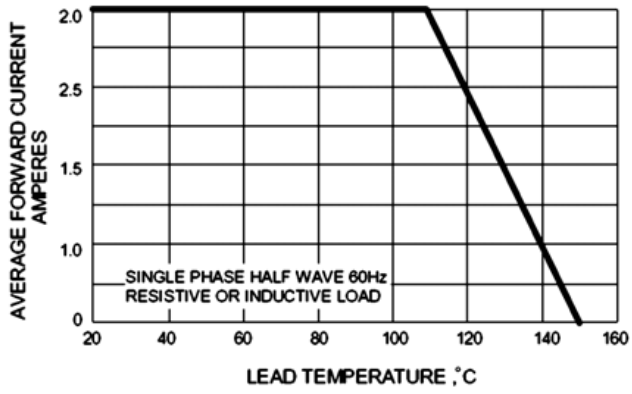


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

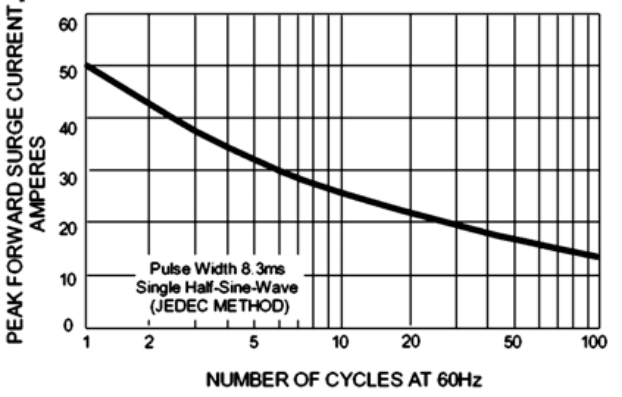


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

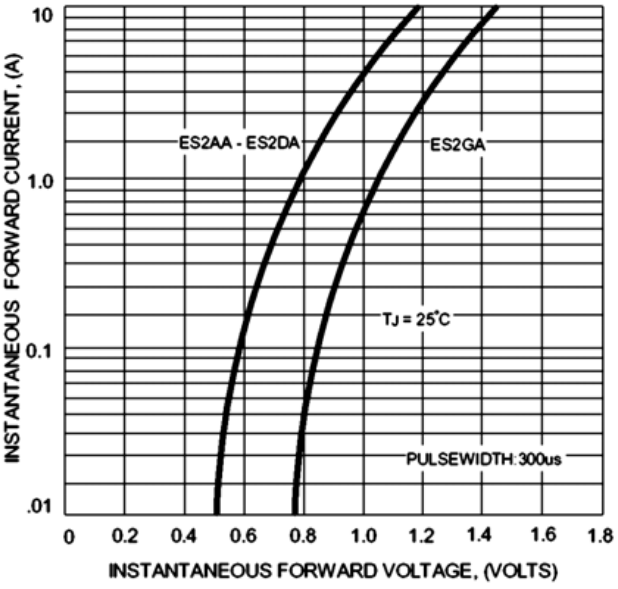
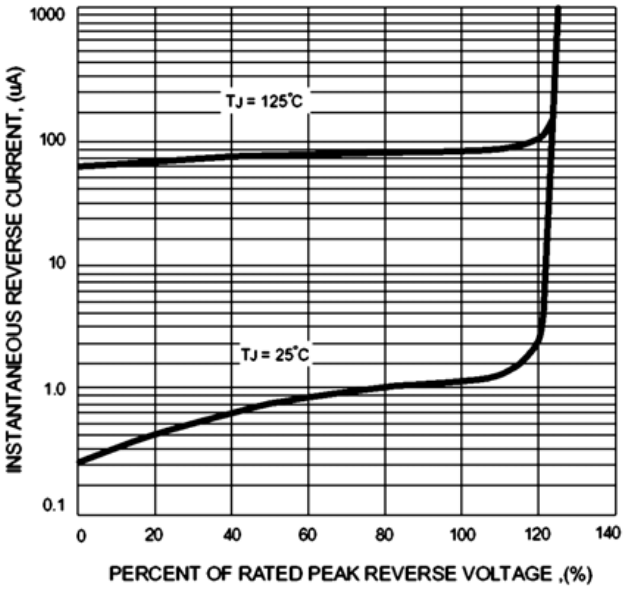
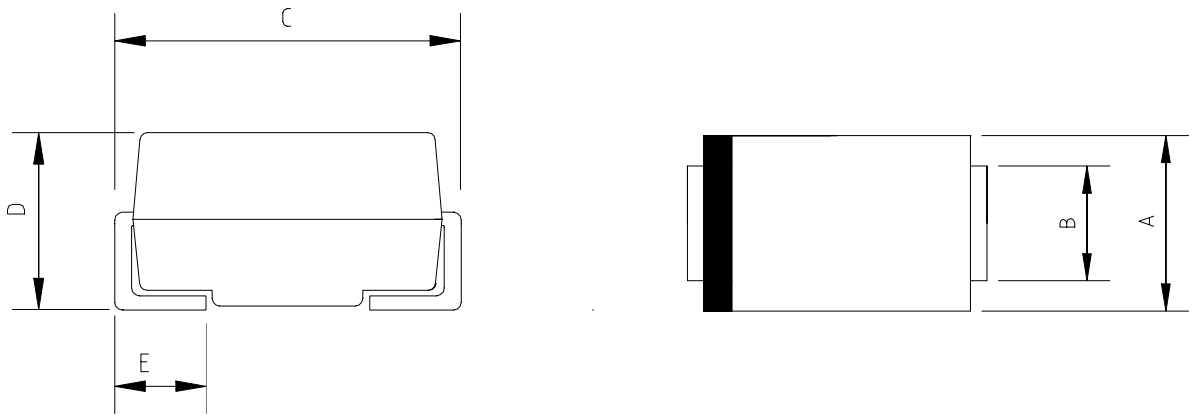


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



Package Dimensions in inches and (millmeters)

Package outline



Dimensions				
	inches		mm	
	Min.	Max.	Min.	Max.
A	0.095	0.104	2.40	2.65
B	0.050	0.064	1.27	1.63
C	0.189	0.205	4.8	5.2
D	0.075	0.089	1.9	2.25
E	0.031	0.059	0.8	1.5

Note:
DO-214AC
molded plastic case
The marking band indicates the cathode