

ES2AA thru ES2JA

SURFACE MOUNT SUPER FAST RECTIFIERS

REVERSE VOLTAGE - 50 to 600 Volts FORWARD CURRENT - 2.0 Amperes

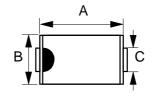
FEATURES

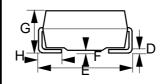
- Glass passivated chip
- Super fast switching for high efficiency
- For surface mounted applications
- Low forward voltage drop and high current capability
- Low reverse leakage current

MECHANICAL DATA

- Case :molded plastic
- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free"
- Polarity : Indicated by cathode band
- Weight: 0.07grams(Approximate)
- Moisture Sensitivity: Level 1 per J-STD-020C
- Lead free finish, RoHS compliant







<u>SMA</u>						
DIM	MIN	MAX				
Α	4.06	4.57				
В	2.29	2.92				
С	1.27	1.63				
D	0.15	0.31				
Е	4.83	5.59				
F	0.05	0.20				
G	2.01	2.40				
Н	0.76	1.52				
All dimensions in millimeters						

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

1.500_01_1									
MARKING CODE			ES2AA	ES2BA	ES2CA	ES2DA	ES2GA	ES2JA	
PARAMETER		SYMBOL	VALUE					UNIT	
Maximum repetitive peak reverse voltage		V_{RRM}	50	100	150	200	400	600	V
Maximum DC blocking voltage		V_{DC}	50	100	150	200	400	600	V
Maximum Average rectified output current	@ T _L = 110℃	I (AV)	2.0					Α	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	50					Α	
Operating and Storage temperature range		T_J , T_{STG}	-55 to +150				C		

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST (CONDITION	SYMBOL	MAX			UNIT
Forward voltage (Note1)	I _F =2A	T _J =25℃	V _F	0.92	1.25	1.30	V
Maximum DC Reverse current at Ra DC Blocking voltage	ated	T _J =25℃ T _J =125℃	I _R	5.0 200		uA	
Typical junction capacitance (Note 2)		Cj	25	•	•	pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP		UNIT
Typical thermal resistance (Note3)	$RthJ_L$	20	25	€\M

DYNAMIC ELECTRICAL CHARACTERISTICS

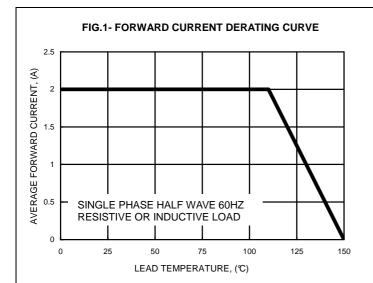
PARAMETER	TEST CONDITION	SYMBOL	MAX			
Reverse Recovery Time	I _F =0.5A,I _R =1.0A,I _{rr} =0.25A	Trr	25		35	nS
Note:						GA02

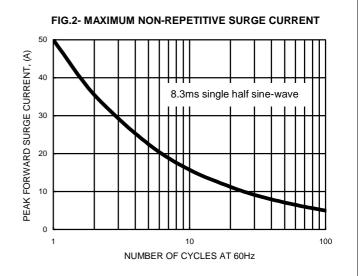
(1) 300us pulse width, 2% duty cycle.

- (2) Measured at 1.0MHz and applied reverse voltage of 4.0 V_{DC}
- (3) Thermal Resistance Junction to Lead

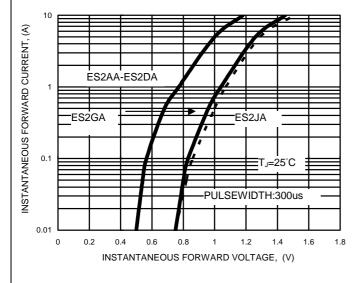
RATING AND CHARACTERISTIC CURVES ES2AA thru ES2JA



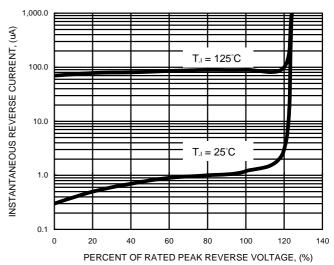














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