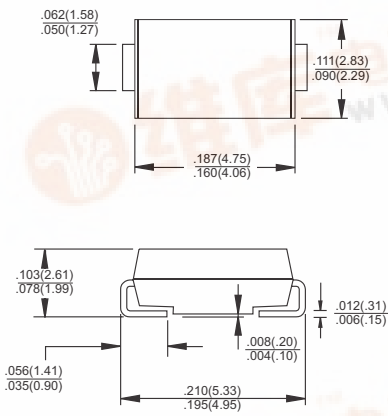


	ES2AA THRU ES2JA 2.0 AMPS. Super Fast Surface Mount Rectifiers										
	Voltage Range 50 to 600 Volts Current 2.0 Amperes										
Features ✧ Glass passivated junction chip ✧ For surface mounted application ✧ Low profile package ✧ Built-in strain relief ✧ Ideal for automated placement ✧ Easy pick and place ✧ Superfast recovery time for high efficiency ✧ Glass passivated chip junction ✧ High temperature soldering: 260°C/10 seconds at terminals ✧ Plastic material used carries Underwriters Laboratory Classification 94V-O	SMA/DO-214AC  Dimensions in inches and (millimeters)										
Mechanical Data ✧ Cases: Molded plastic ✧ Terminals: Solder plated ✧ Polarity: Indicated by cathode band ✧ Packing: 12mm tape per E1A STD RS-481 ✧ Weight: 0.093 gram											
Maximum Ratings and Electrical Characteristics Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%											
Type Number	Symbol	ES 2AA	ES 2BA	ES 2CA	ES 2DA	ES 2FA	ES 2GA	ES 2HA	ES 2JA	Units	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	500	600	V	
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	350	420	V	
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	500	600	V	
Maximum Average Forward Rectified Current See Fig. 1	I _(AV)	2.0								A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50								A	
Maximum Instantaneous Forward Voltage @ 2.0A	V _F	0.95				1.3		1.7		V	
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =100°C	I _R	10 350								uA uA	
Maximum Reverse Recovery Time (Note 1)	T _{rr}	35								nS	
Typical Junction Capacitance (Note 2)	C _j	25				20				pF	
Maximum Thermal Resistance (Note 3)	R _{θJA} R _{θJL}	75 20								°C/W	
Operating Temperature Range	T _J	-55 to +150								°C	
Storage Temperature Range	T _{STG}	-55 to + 150								°C	

Notes: 1. Reverse Recovery Test Conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$

2. Measured at 1 MHz and Applied $V_R = 4.0$ Volts

3. Units Mounted on P.C.B. 0.2" x 0.2" (5.0 x 5.0mm) Pad Areas

RATINGS AND CHARACTERISTIC CURVES (ES2AA THRU ES2JA)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

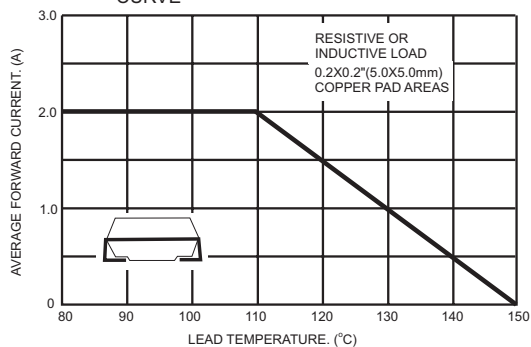


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

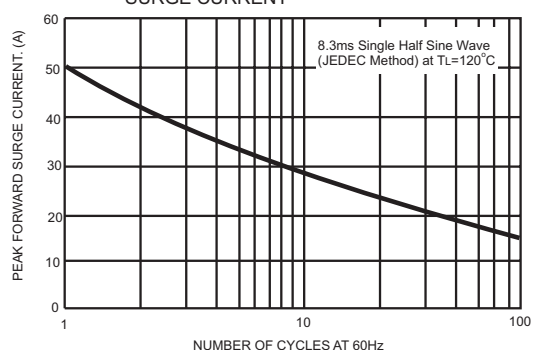


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

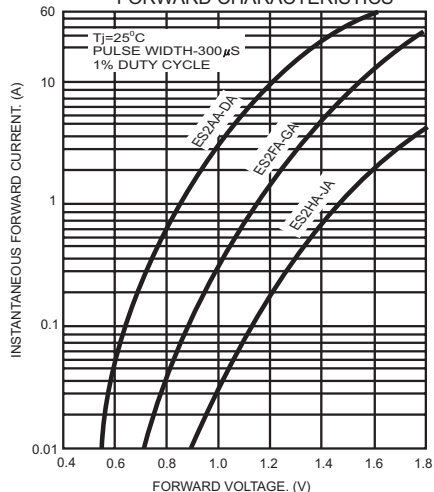


FIG.4- TYPICAL REVERSE CHARACTERISTICS

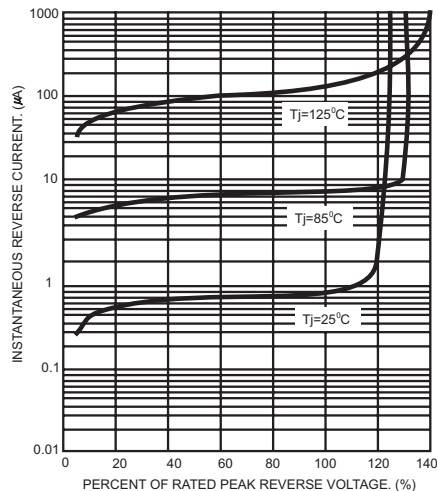


FIG.5- TYPICAL JUNCTION CAPACITANCE

