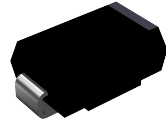
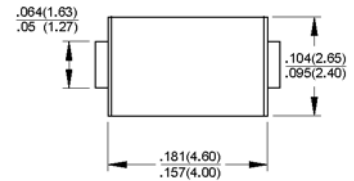


Features

- ◆ 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
- ◆ Plastic material has UL flammability classification 94V-0



DO-214AC (SMA)



Mechanical Data

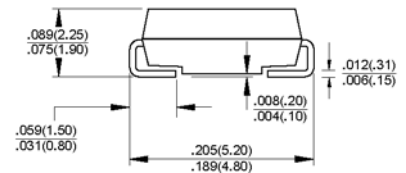
- ◆ Case : Molded plastic
- ◆ Polarity : Indicated by cathode band
- ◆ Weight : 0.002 ounce, 0.064 gram

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%



Dimensions in inches and (millimeters)

Parameter	Symbols	ES 2AA	ES 2BA	ES 2CA	ES 2DA	ES 2FA	ES 2GA	ES 2JA	ES 2KA	ES 2MA	Units	
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	150	200	300	400	600	800	1000	Volts	
Maximum RMS voltage	V_{RMS}	35	70	105	140	210	280	420	560	700	Volts	
Maximum DC blocking voltage	V_{DC}	50	100	150	200	300	400	600	800	1000	Volts	
Maximum average forward rectified current @ $T_L=110^\circ\text{C}$	I_{AV}	2.0									Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50.0									Amps	
Maximum instantaneous forward voltage @ 2.0A DC	V_F	0.92				1.25		1.7			Volts	
Maximum DC reverse current at rated DC blocking voltage @ $T_j=25^\circ\text{C}$ @ $T_j=100^\circ\text{C}$	I_R						5.0 350					μA μA
Maximum reverse recovery time (Note 1)	t_r						25					nS
Typical junction capacitance (Note 2)	C_j						25					pF
Typical thermal resistance (Note 3)	$R_{\theta JL}$						20					$^\circ\text{C/W}$
Operating junction temperature range	T_j						-55 to +150					$^\circ\text{C}$
Storage temperature range	T_{STG}						-55 to +150					$^\circ\text{C}$

- Notes:**
1. Reverse Recovery Test Conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$
 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 3. Thermal Resistance junction to Lead.



ES2AA thru ES2MA

Super Fast Surface Mount Rectifiers
Reverse Voltage 50 to 1000 Volts Forward Current 2.0 Amperes

RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

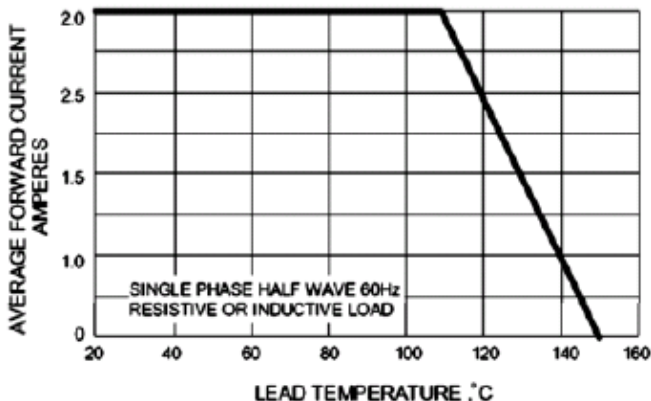


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

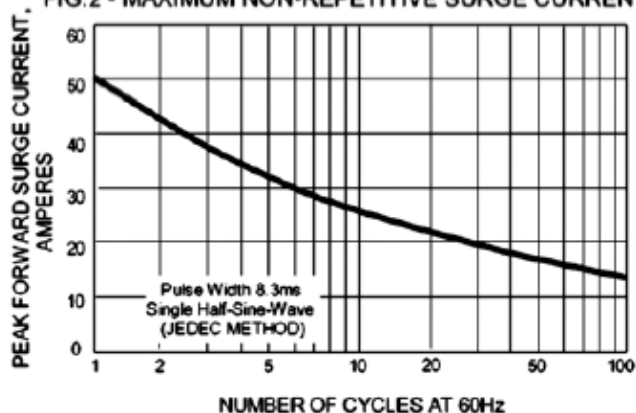


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

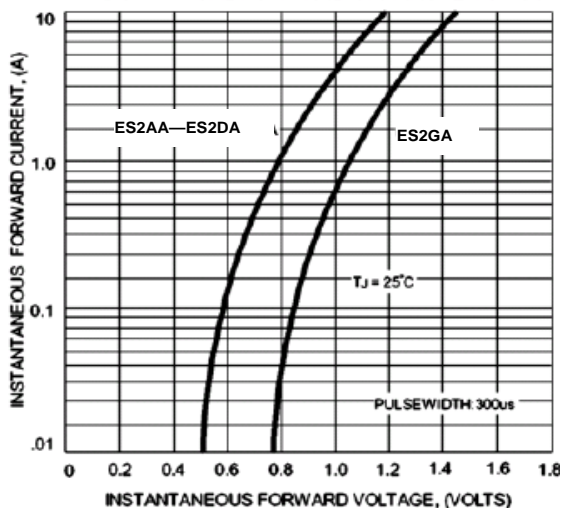


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

