



查询"ES2MA"供应商

ES2AA thru ES2MA

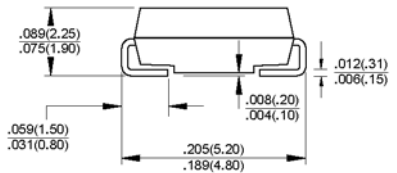
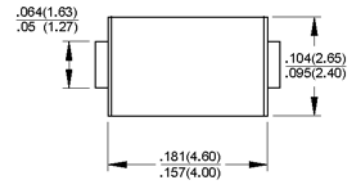
Super Fast Surface Mount Rectifiers
Reverse Voltage 50 to 1000 Volts Forward Current 2.0 Amperes

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



DO-214AC (SMA)



Dimensions in inches and (millimeters)

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%

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°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°C @ T _J =125°C	I _R					5.0 350					µA µA
Maximum reverse recovery time (Note 1)	t _{rr}					25					nS
Typical junction capacitance (Note 2)	C _j					25					pF
Typical thermal resistance (Note 3)	R _{θJL}					20					°C/W
Operating junction temperature range	T _j					-55 to +150					°C
Storage temperature range	T _{STG}					-55 to +150					°C

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

RATINGS AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

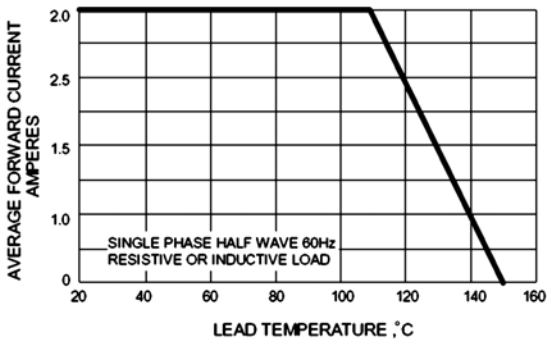


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

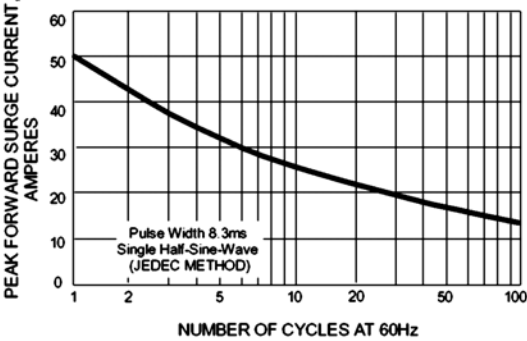


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

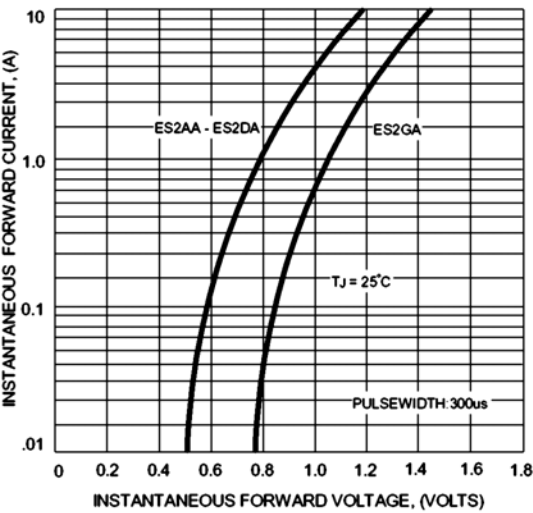


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

