

ES2AA thur ES2MA

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Super Fast Surface Mount Rectifier in DO-214AC/SMA

Features

- For surface mounted application
- Glass passivated junction chip
- Built-in strain relief
- ideal for automated placement
- Superfast recovery time for high efficiency

Mechanical Data

- Case: JEDEC DO-214AC(SMA)molded plastic Lead free; RoHS compliant; Halogen free
- Molding Compound Flammability Rating: UL 94 V-0
- **Terminals:** High temperature soldering guaranteed: 260 °C/10 sec. at terminals

Maximum Ratings And Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified.

Parameter	Symbols	ES2AA	ES2BA	ES2DA	ES2GA	ES2JA	ES2KA	ES2MA	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current See Fig. 1 @ $T_L{=}90^\circ\text{C}$	I _(AV)	2.0		•	Amp				
Peak forward surge current, 8.3 ms single half sine- wave superimposed on rated load (JEDEC Method)	I _{FSM}	50.0			Amps				
Maximum instantaneous forward voltage @ 1.0A	V _F		0.95		1.25		1.7		Volts
Maximum DC reverse current @T _A =25°C at rated DC blocking voltage @T _A =125°C	I _R				5.0 100				uA
Maximum reverse recovery time (Note 1)	t _{rr}	35			nS				
Typical junction capacitance (Note 2)	C」	10			pF				
Typical thermal resistance (Note 3)	R _{eja} R _{ejl}	85.0 35.0			°C/W				
Operating temperature range	TJ				-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 $V_{\rm R}$ =4.0 Volts

3. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.2" x 0.2" (5.0 x 5.0 mm) Copper Pad Areas



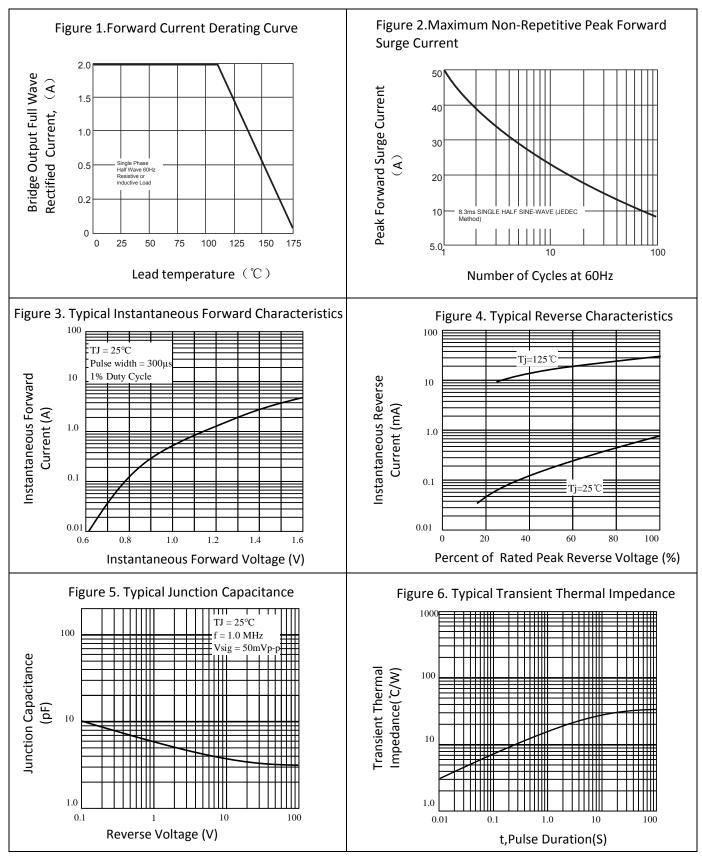


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Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)

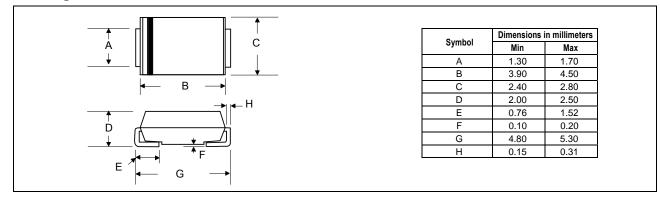




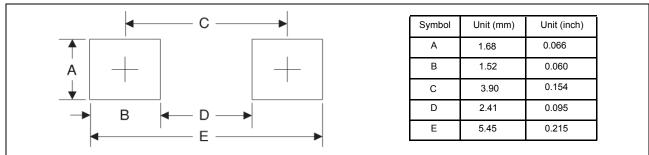
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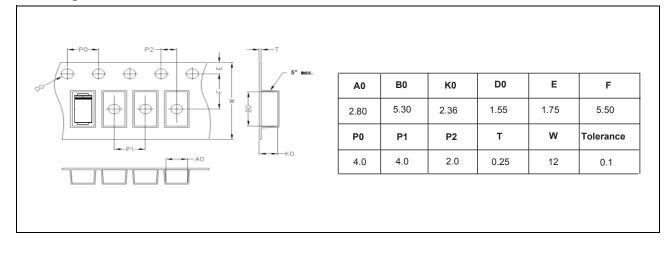
Package Dimensions



PAD Dimensions



Packing Information



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification	
ES2AA thur ES2MA	DO-214AC/SMA	Tape and reel	7500pcs / reel	EIA STD RS-481	

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release

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