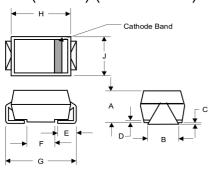


ES2A THRU ES2M

SURFACE MOUNT SUPER FAST RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Amperes

DO-214AA (HSMB) (Round Lead)



DIMENSIONS											
	INCHES		ММ								
DIM	MIN	MAX	MIN	MAX	NOTE						
Α	.078	.116	1.98	2.95							
В	.075	.089	1.90	2.25							
С	.002	.008	.05	.20							
D		.02		.51							
E	.035	.055	.90	1.40							
F	.065	.091	1.65	2.32							
G	.205	.224	5.21	5.69							
Н	.160	.180	4.06	4.57							
J	.130	.155	3.30	3.94							

FEATURES

- ◆ Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates
- Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability
- ◆ Classification Rating 94V-0 and MSL rating 1
- Easy Pick And Place
- ◆ High Temp Soldering: 260°C for 10 Seconds At Terminals
- Ultrafast Recovery Times For High Efficiency

MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic body over passivated chip Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.005 ounce, 0.138 grams

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 current derate by 20%.

Catalog Number	SYMBOLS	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J	ES2K	ES2M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	150	200	300	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	105	140	210	280	420	560	700	VOLTS
Maximum DC blocking voltage	Vpc	50	100	150	200	300	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=55°C	I(AV)	2.0							Amps		
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	50.0							Amps		
Maximum instantaneous forward voltage at 2.0A	VF	0.95			1.25 1.7			7	Volts		
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lR	5.0 150.0							μА		
Maximum reverse recovery time (NOTE 1)	trr	50		60		100		ns			
Typical junction capacitance (NOTE 2)	Cı	25.0							pF		
Typical thermal resistance (NOTE 3)	Reja	20.0							°C/W		
Operating junction and storage temperature range	ТЈ Тѕтс	-50 to +150							°C		

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

- 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 3.Pulse test: Pulse width 200 sec, Duty cycle 2%
- 4. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

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RATINGS AND CHARACTERISTIC CURVES ES2A THRU ES2M

Figure 1 Typical Forward Characteristics

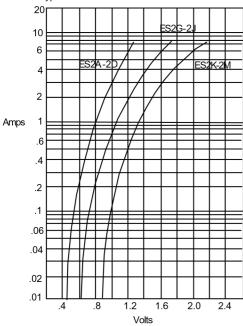


Figure 2 Forward Derating Curve 2.4 2.2 2.0 1.8 1.6 1.4 1.2 Amps 1.0 .8 .6 .4 Single Phase, Half Wave 2 60Hz Resistive or Inductive Load 0 50

25

°C Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C

75

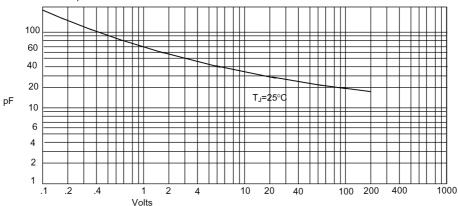
100

125

150

Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

Figure 3 Junction Capacitance



Junction Capacitance - pFversus Reverse Voltage - Volts

RATINGS AND CHARACTERISTIC CURVES ES2A THRU ES2M

Figure 4 Peak Forward Surge Current

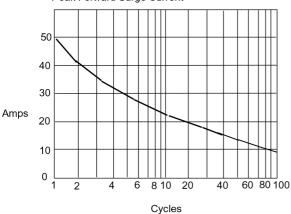
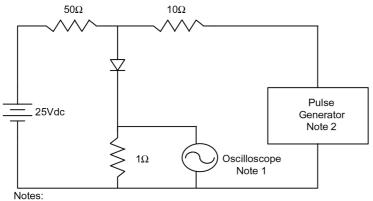
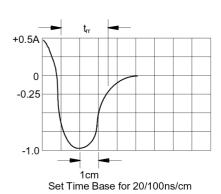


Figure 5 New SMB Assembly Round Lead **Process**

Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Reverse Recovery Time Characteristic And Test Circuit Diagram





1. Rise Time = 7ns max.

Input impedance = 1 megohm, 22pF

2. Rise Time = 10ns max.

Source impedance = 50 ohms

3. Resistors are non-inductive

单击下面可查看定价,库存,交付和生命周期等信息

>>RCD(达标电子)