ES3AP-ES3JP

Surface Mount Superfast Rectifiers

Features

- ◆ Low profile package
- ◆ Ideal for automated placement
- ◆ Glass passivated chip junction
- ◆ High forward surge capability
- ◆ Super fast reverse recovery time



SMP

Mechanical Data

Case: SMP Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

High temperature soldering guaranteed: 260℃/10 seconds

Polarity: Cathode line denotes the cathode end

Mounting Position: Any

Maximum Ratings & Electrical Characteristics

Ratings at TA = 25°C unless otherwise specified

Characteristic	Symbol	ES3AP	ES3BP	ES3DP	ES3FP	ES3GP	ES3JP	Units
Peak repetitive reverse voltage	VRRM	50	100	200	300	400	600	V
RMS reverse voltage	VRMS	35	70	140	210	280	420	V
DC blocking voltage	VDC	50	100	200	300	400	600	V
Maximum average forward output current	IF(AV)	3						A
Peak forward surge current,8.3ms single half-sine-wave, @TJ = 25°C	IFSM	100						A
Rating for fusing(t<8.3ms)	I2t	41.5						A2sec
Maximum instantaneous forward voltage @ 1A	VF	0.95			1.3		1.7	V
Maximum reverse recovery time	Trr	35						nS
Maximum Reverse current Rated VR @TA =25°C	IR	10						μ A
@TA =125°C		250						
Operating junction temperature range	TJ	- 55 ---- + 150						°C
Storage temperature range	TSTG	- 55 ---- + 150						°C

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Ratings and Characteristic Curves (T_A=25°C unless otherwise noted)

Fig.1-Forward Current Derating Curve

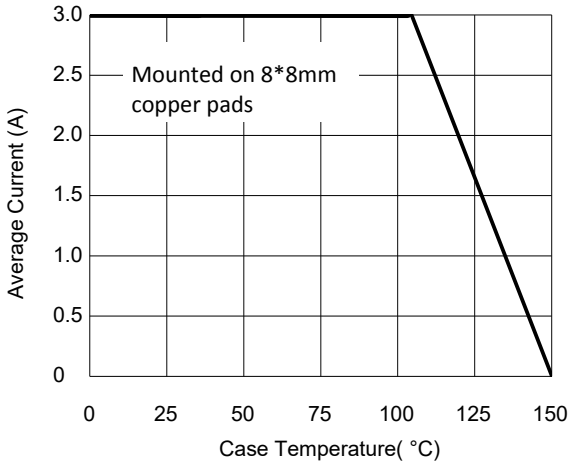


Fig.2- Surge Current Derating Curve

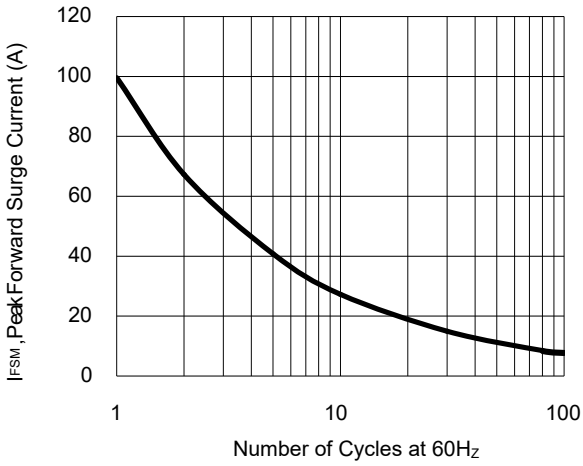


Fig.3- Typical Forward Voltage Characteristic

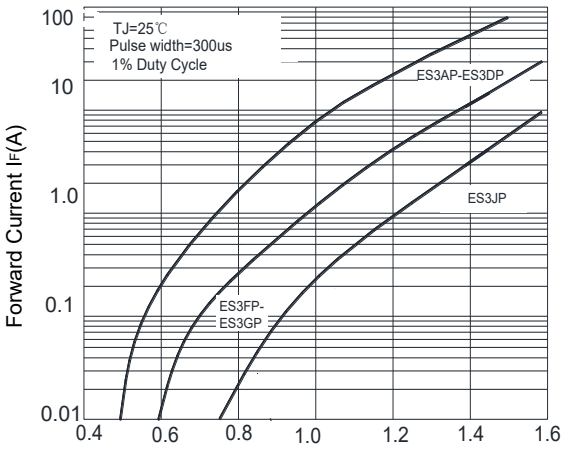
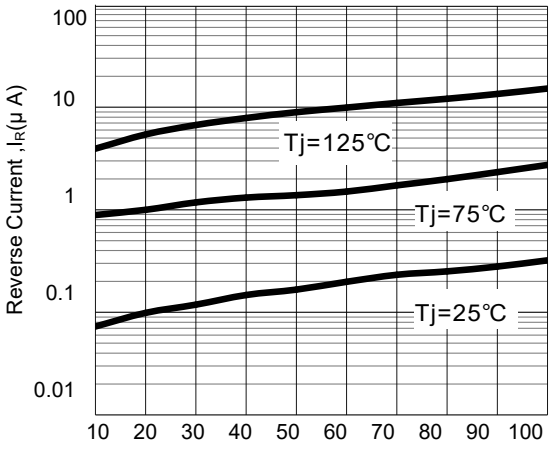


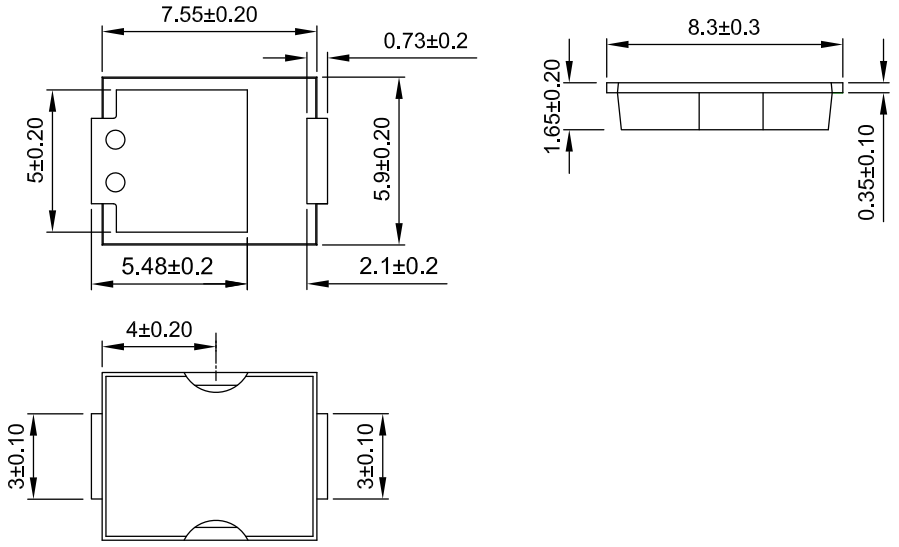
Fig.4- Typical Reverse Characteristic



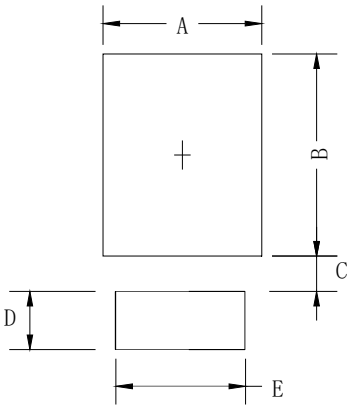
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Package Outline Dimensions(unit:mm)

SMP



Mounting Pad Layout(unit:mm)



Dim	Millimeters
A	5.40
B	6.40
C	1.25
D	1.70
E	4.00

Ordering Information

Part No.	Marking	Package	Shipping
ES3AP	ES3AP	SMP	3000PCS /Tape&Reel
ES3BP	ES3BP	SMP	3000PCS /Tape&Reel
ES3DP	ES3DP	SMP	3000PCS /Tape&Reel
ES3FP	ES3FP	SMP	3000PCS /Tape&Reel
ES3GP	ES3GP	SMP	3000PCS /Tape&Reel
ES3JP	ES3JP	SMP	3000PCS /Tape&Reel

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