



Compliance

ES1A to ES1J

Surface Mounted Bridge Rectifier

General Description

This SMD device is for use in general purpose rectification of power supplies, inverters, converters and freewheeling diodes application

- High Forward Surge Capability
- Low Forward Voltage Drop
- Small size package for installation

Features

- Case: SMA, molded epoxy body
- Terminal: Matte tin plated leads
- Polarity: Color band denotes cathode end

Maximum Ratings (T_A=25□ unless otherwise noted)

Parameter	Symbol	ES1A	ES1B	E04D	5040	F041	T
i diameter	Syllibol	ESTA	ESIB	ES1D	ES1G	ES1J	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	V
Maximum average forward output							
rectifier current	F(AV)			1.0			Α
Peak forward surge current single half							
sine-wave superimposed on rated load		30					Α
Operating Junction Temperature Range	T _J , T _{STG}	-55 to 150					

Electrical Characteristics (T _A =25□ unless otherwise noted)										
Parameter	Condition	Symbol	ES1A	ES1B	ES1D	ES1G	ES1J	Units		
Maximum instantaneous	15-4-04		0.95		1.3 1.7		V			
forward voltage	IF=1.0A	V _F				1.7				
Maximum DC reverse	T _A =25□			***************************************	50		-Ł			
current at blocking voltage	T _A =125□	l _R	100					η μΑ		
Reverse Recovery Time	See note 1	trr		2000-12	35			ns		
Typical junction	4.0V,	_						T.		
capacitance	1 MHz	Сл	10				pF			

Thermal Characteristic	(T _A =25□ unless otherwise noted)							
Parameter		Symbo	ES1A	ES1B	ES1D	ES1G	ES1J	Units
Typical Thermal resistance		R _{0JA}			50			□/W

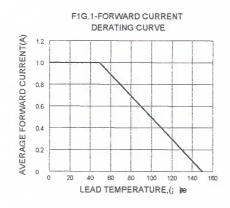
Note

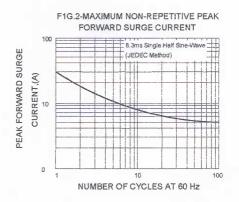
^{1.} Test condition: IF=0.5A, IR=1.0A, IRR=0.25A

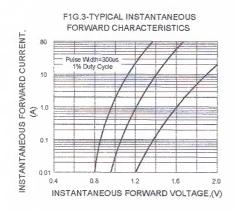


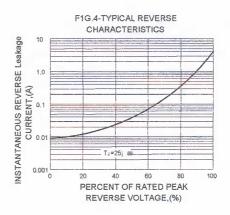
ES1A to ES1J

Ratings and Characteristics Curves (T_A=25 unless otherwise noted)









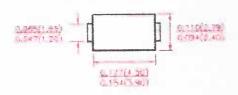


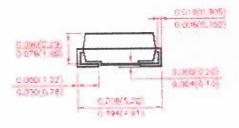
ES1A to ES1J

Package Information

SMA







Product Chip Information

Product Number	ES1J
Chip Technology	OJ Process
Popular	

Ordering Information

Part No.	UNIT WEIGHT (g)	Quantity	PACKING	
ES1A-ES1J	0.0305	2000 or 5000	7"/11"diameter plastic reel	

NOTE

- 1) According to the existing RoHS requirement, Lead found in GPP Dice and Lead in high melting Temperature type solders are specifically exempted.
- 2) After authority chop & sign, there should not be any additional changes, cancellation or correction.
- 3) Please sign & return the attached copy for us as acknowledgement of the above information.