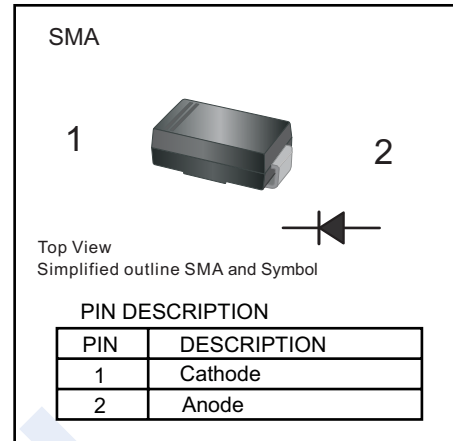


## Fast Recovery Diodes

## ES1A ~ ES1J

## ■ Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Low Power Loss
- Super-Fast Recovery Time



## ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	ES1A	ES1B	ES1C	ES1D	ES1E	ES1G	ES1J	Unit	
Repetitive Peak Reverse Voltage	VRRM								V	
Working Peak Reverse Voltage	VRWM	50	100	150	200	300	400	600		
Maximum DC Blocking Voltage	VDC									
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	420		
Forward Voltage @ IF=1A	VF	0.95			1.25		1.7			
Average Rectified Output Current TL=120°C	Io	1								A
Peak Forward Surge Current @ 8.3ms	IFSM	30								
Maximum DC Reverse Current Ta=25°C Ta=100°C	IR	5								μA
		500								
Reverse Recovery Time (Note.1)	trr	35								ns
Typical Junction Capacitance (Note.2)	Cj	10								pF
Thermal Resistance.Junction- to-Lead	RthJL	35								°C/W
Junction Temperature	Tj	150								°C
Storage Temperature	Tstg	-65 to 150								

Note.1: Measured with IF= 0.5A, IR = 1A, Irr = 0.25A. See figure 5.

Note.2: Measured at 1 MHz and Applied VR=4V

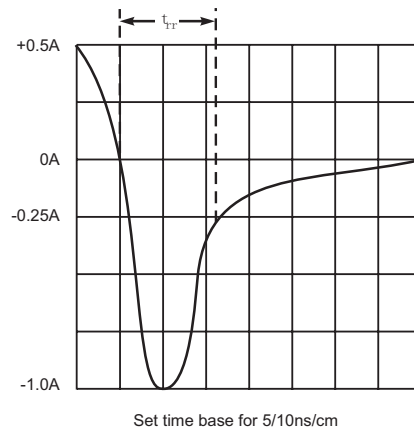
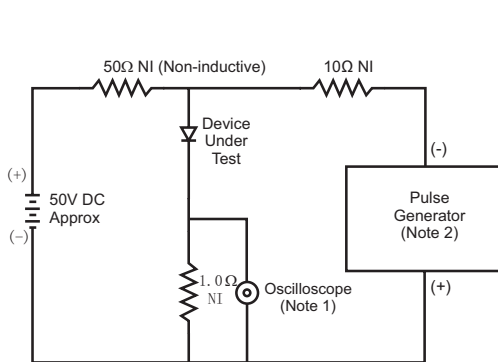
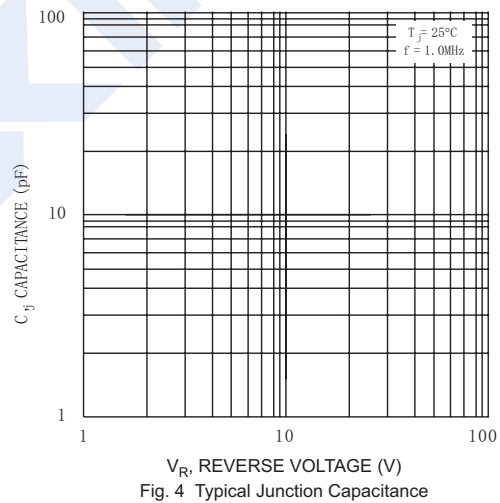
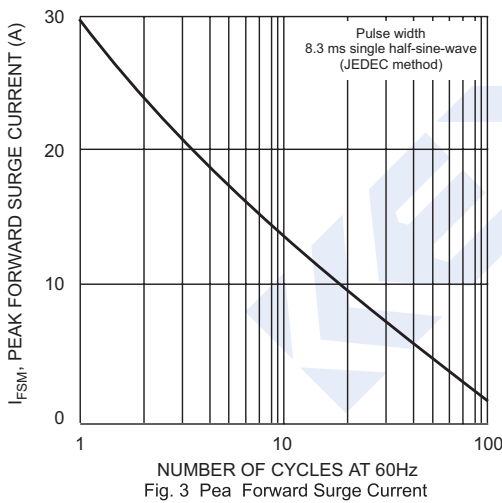
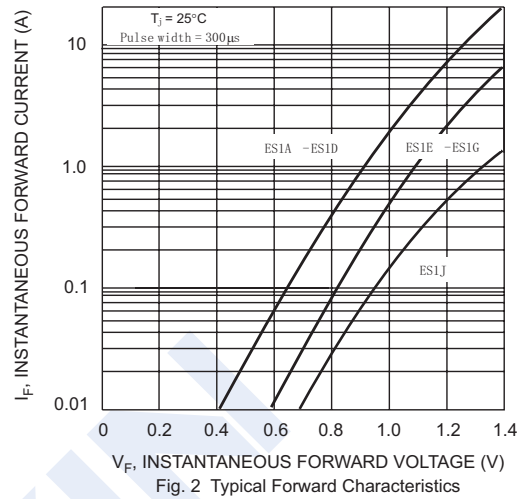
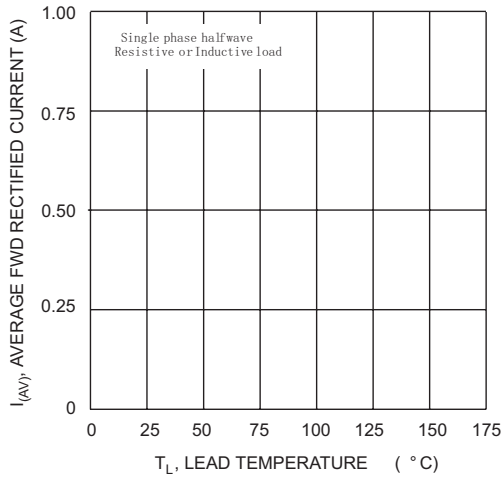
## ■ Marking

NO.	ES1A	ES1B	ES1C	ES1D	ES1E	ES1G	ES1J
Marking	ES1A	ES1B	ES1C	ES1D	ES1E	ES1G	ES1J

# Fast Recovery Diodes

## ES1A ~ ES1J

### ■ Typical Characteristics



- Notes:  
 1. Rise Time = 7.0ns max. Input Impedance = 1.0MΩ, 22pF.  
 2. Rise Time = 10ns max. Input Impedance = 50Ω.

Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

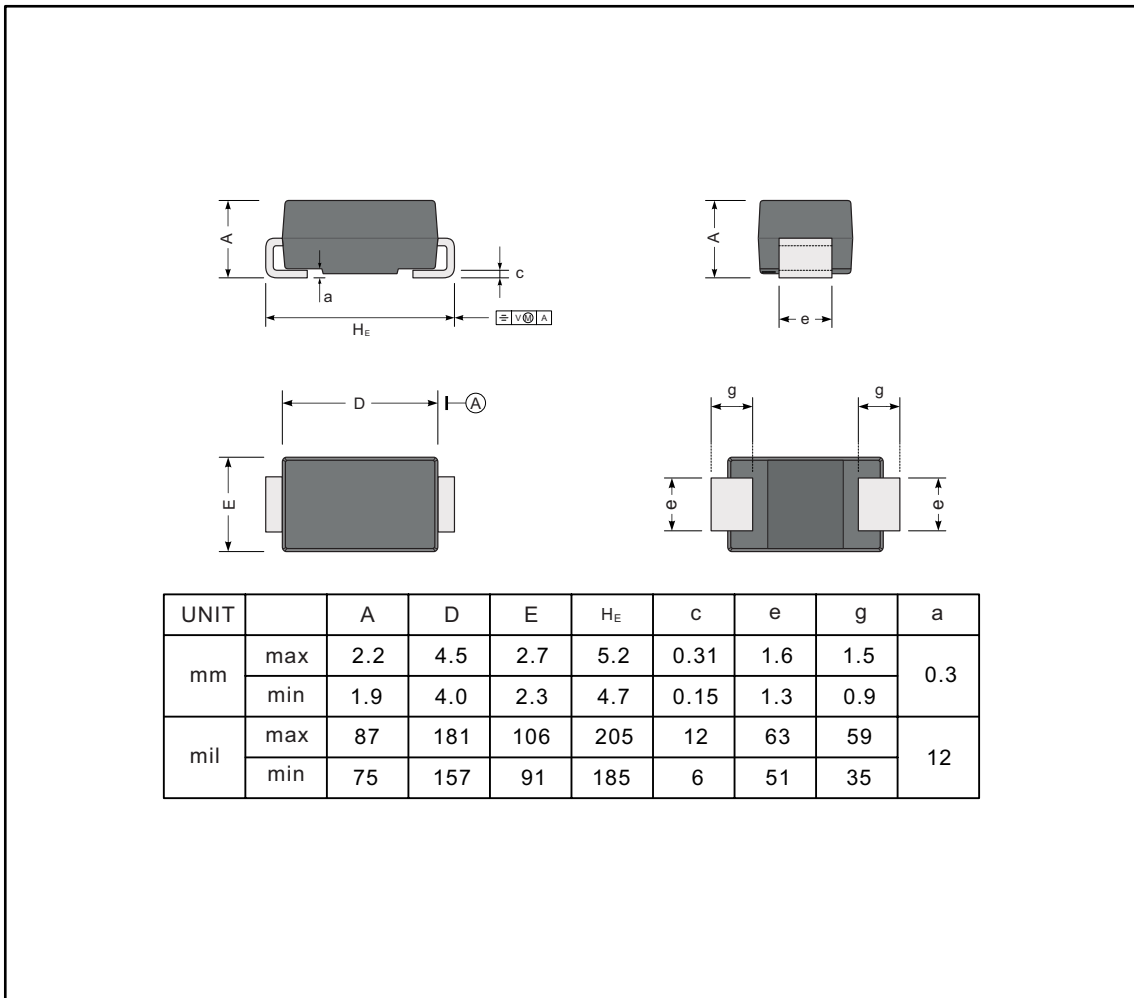
## Fast Recovery Diodes

## ES1A ~ ES1J

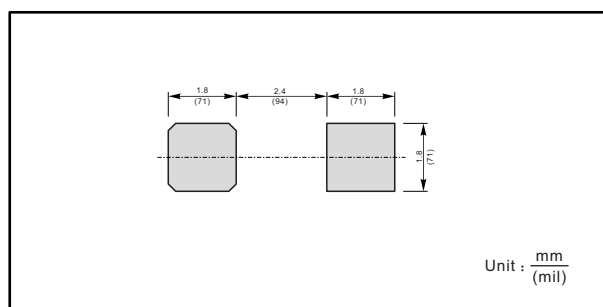
## ■ Package Outline Dimensions

Plastic surface mounted package; 2 leads

SMA



## ■ The recommended mounting pad size



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