

#### 2.0Amp Super Fast Recovery Surface Mounted Rectifiers

#### **Features**

- The plastic package carries Underwriters Laboratory
  Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds at terminals

#### **Mechanical Data**

Case: Molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

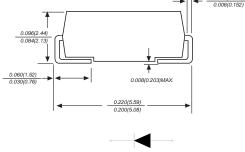
Polarity: Polarity symbol marking on body

Mounting Position: Any

Weight: 0.0035 ounce, 0.098 grams

# 0.087 (2.20) 0.071 (1.80) 0.130(3.30) 0.130(4.57) 0.160(4.06)

DO-214AA/SMB



Dimensions in inches and (millimeters)

#### **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%.

Parameter	SYMBOLS	ES2A	ES2B	ES2C	ES2D	ES2F	ES2G	ES2J	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	150	200	300	400	600	V
Maximum RMS voltage	VRMS	35	70	105	140	210	280	420	V
Maximum DC blocking voltage	VDC	50	100	150	200	300	400	600	V
Maximum average forward rectified current at TL=100°C	l(AV)	2.0					А		
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	50.0					А		
Maximum instantaneous forward voltage at 2.0A	VF	0.95 1.25 1.7				V			
Maximum DC reverse current T a =25°C at rated DC blocking voltage Ta=125°C	lR	5.0 500					u A		
Maxinum reverse recovery time(Note 1)	Trr	35					ns		
Typical junction capacitance (Note2)	Сı	55.0					pF		
Typical thermal resistance	RqJA	85.0					°C/W		
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150					°C		

**Note:** 1.Reverse recovery time test condition: IF=0.5A IR=1.0A Irr=0.25A 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

www.shunyegroup.com.cn



## 2.0Amp Super Fast Recovery Surface Mounted Rectifiers

## **Ratings And Characteristic Curves**

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

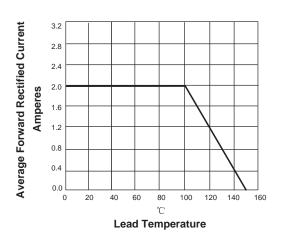


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

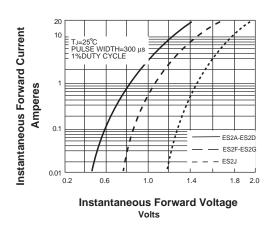


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

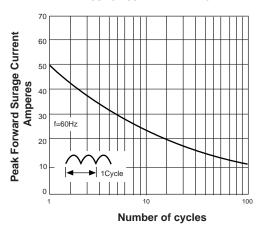
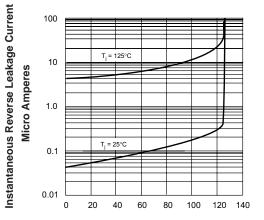
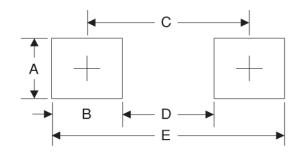


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Percent Of Rated Peak Reverse Voltage(%)

# **Suggested Pad Layout**



Symbol	Unit (mm)	Unit (inch)			
Α	2.30	0.091			
В	2.00	0.078			
С	4.10	0.161			
D	2.10	0.083			
E	6.10	0.240			

www.shunyegroup.com.cn 2/2