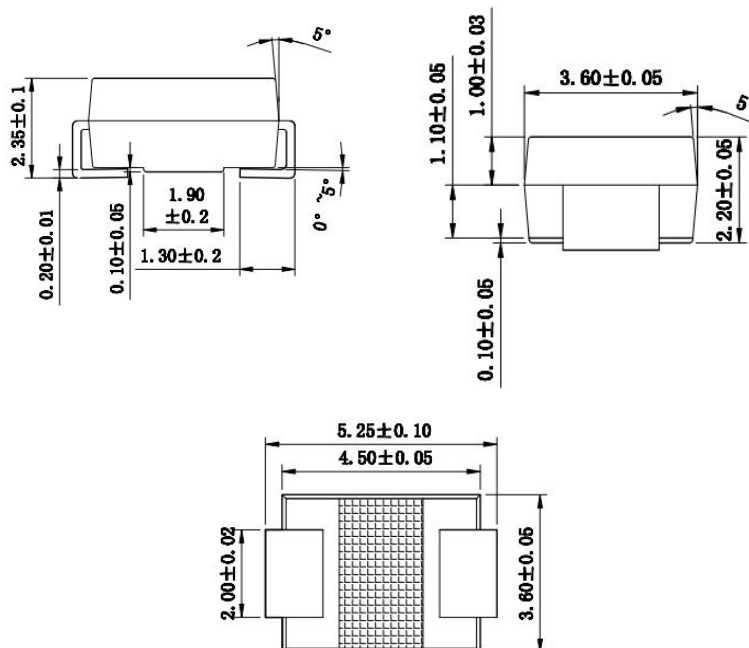


Features

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

DO-214AA/SMB



Mechanical Data

Case: JEDEC DO-214AA/SMB molded plastic body
Terminals: Solderable per MIL-STD-750, Method 2026
Polarity: Polarity symbol marking on body Mounting
Position: Any
Weight : 0.005ounce, 0.138grams

Maximum Ratings And Elect Characteristics

Dimensions in inches and (millimeters)

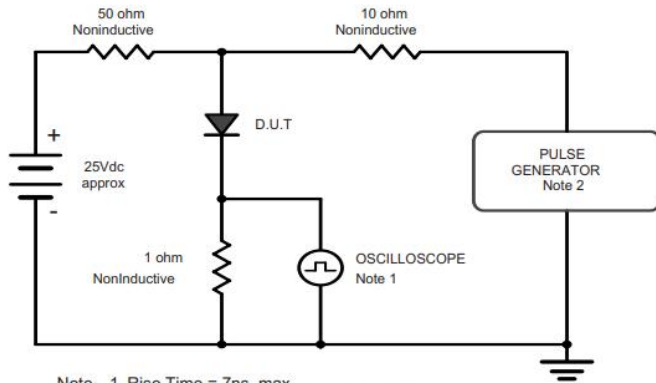
Ratings at 25 C ambient temperature unless otherwise specified.
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Type Number	SYMBOL	ES3JB	unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC blocking Voltage	V_{DC}	600	V
Maximum Average Forward Rectified Current .at $T_A = 55^\circ\text{C}$	$I_{F(AV)}$	3	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	90.0	A
Maximum Forward Voltage at 1.5A DC	V_F	1.7	V
Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$ At rated DC blocking voltage @ $T_A = 100^\circ\text{C}$	I_R	5.0	μA
		100.0	μA
Typical Junction Capacitance (Note1)	C_j	40	pF
Maximum reverserecovery tme (Note2)	t_{rr}	35	ns
Typical Thermal Resistance (Note 3)	$R_{(JA)}$	40/16	$^\circ\text{C}/\text{W}$
Storage Temperature	T_{STG}	-55 to +150	$^\circ\text{C}$
Operation Junction Temperature	T_J	-55 to +150	$^\circ\text{C}$

Note: 1. Pulse Test with $PW=300\mu\text{sec}$, 2% Duty Cycle.
2. Mounted on P.C.Board with 5.0mm2(.013mm thick)copper pad areas.



Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram



Note: 1. Rise Time = 7ns, max.
Input Impedance = 1megohm, 22pF.
2. Rises Time = 10ns, max.
Source Impedance = 50 ohms.

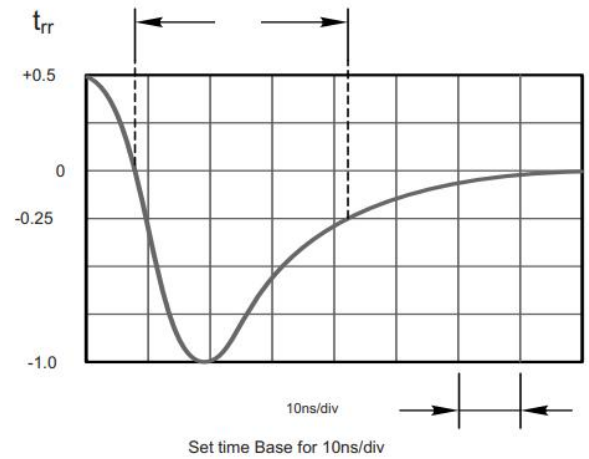


Fig.2 Maximum Average Forward Current Rating

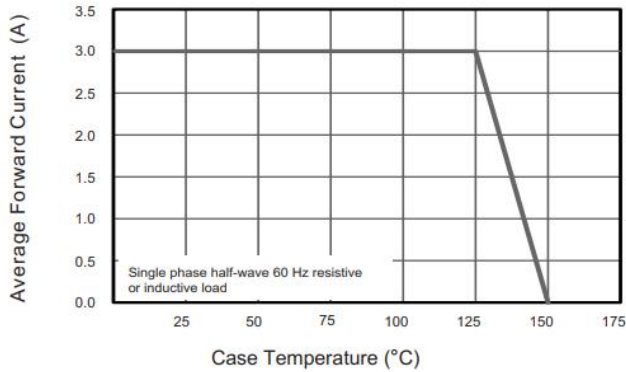


Fig.3 Typical Reverse Characteristics

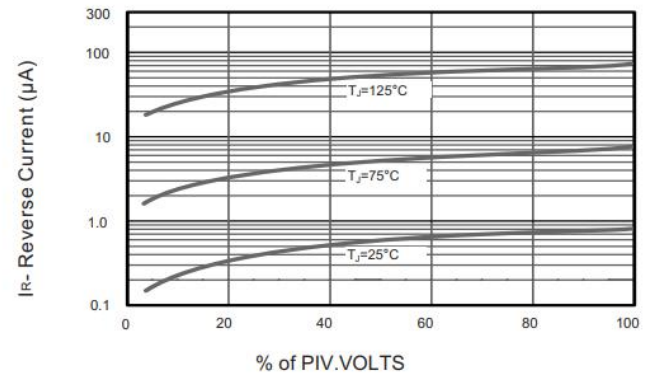


Fig.4 Typical Forward Characteristics

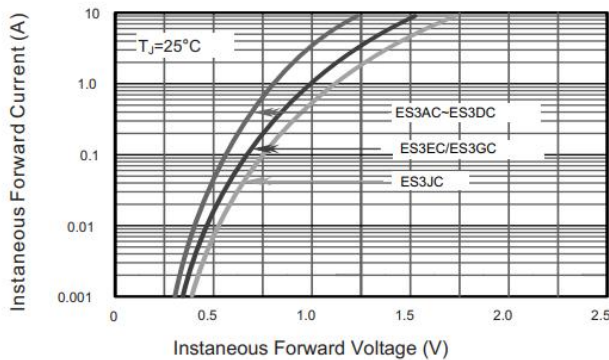


Fig.5 Typical Junction Capacitance

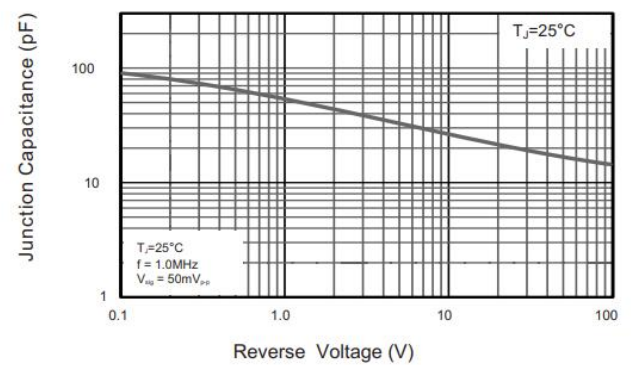
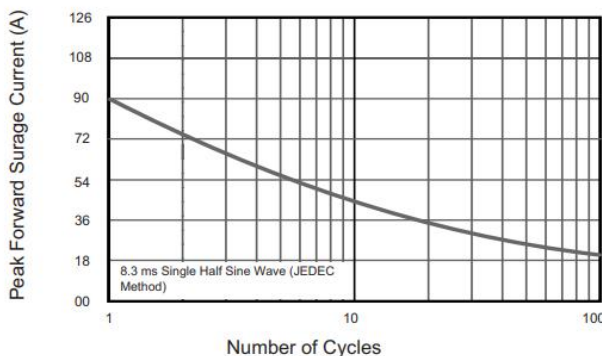


Fig.6 Maximum Non-Repetitive Peak Forward Surge Current



The curve above is for reference only.