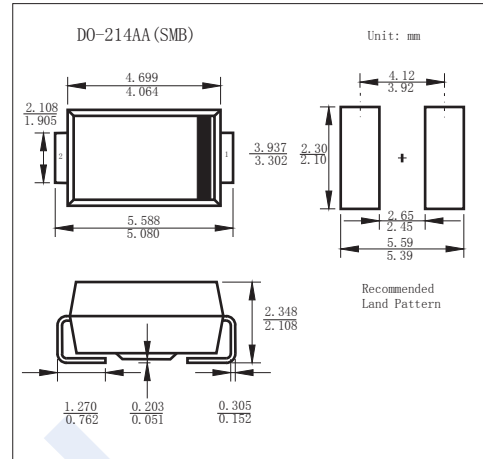


Rectifier Diodes

ES2A ~ ES2D

■ Features

- Glass Passivated Die Construction
- Super-Fast Recovery Time For High Efficiency
- Surge Overload Rating to 50A Peak
- Ideally Suited for Automated Assembly
- Lead Free Finish/RoHS Compliant
- Green Molding Compound

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	ES2A	ES2B	ES2C	ES2D	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	150	200	V
Working Peak Reverse Voltage	V_{RWM}					
Maximum DC Blocking Voltage	V_{DC}					
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	105	140	
Forward Voltage @ $I_F=2A$	V_F	0.92				A
Averaged Forward Current $T_T=110^\circ\text{C}$	I_{FAV}	2				
Peak Forward Surge Current @ 8.3ms	I_{FSM}	50				
Maximum DC Reverse Current $T_a=25^\circ\text{C}$ $T_a=125^\circ\text{C}$	I_R	5 350				μA
Maximum Reverse Current (Note.1)	t_{rr}	25				ns
Typical Junction Capacitance (Note.2)	C_j	25				pF
Typical Thermal Resistance, Junction to Terminal	$R_{\theta JT}$	20				$^\circ\text{C/W}$
Junction Temperature	T_j	150				$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to 150				

Note.1: Measured with $I_F = 0.5\text{ A}$, $I_R = 1\text{ A}$, $I_{rr} = 0.25\text{ A}$

Note.2: Measured at 1MHz and applied reverse voltage of 4V D.C

■ Marking

NO.	ES2A	ES2B	ES2C	ES2D
Marking	ES2A	ES2B	ES2C	ES2D

Rectifier Diodes

ES2A ~ ES2D

Typical Characteristics

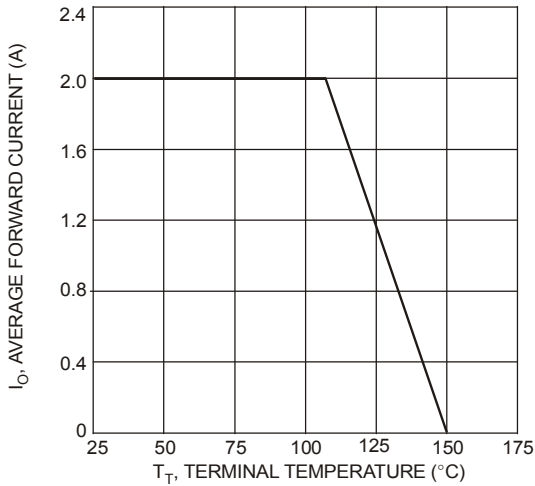


Fig. 1 Forward Current Derating Curve

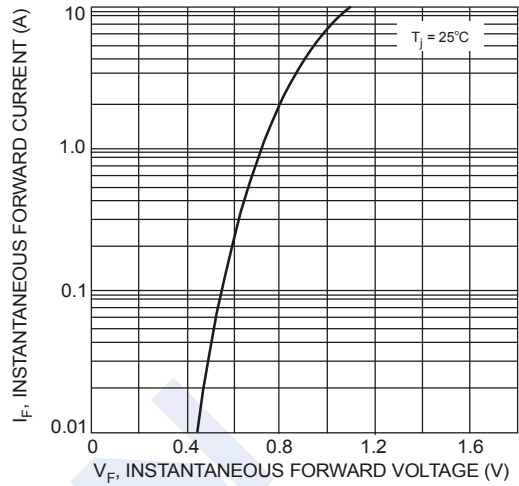


Fig. 2 Typical Forward Characteristics

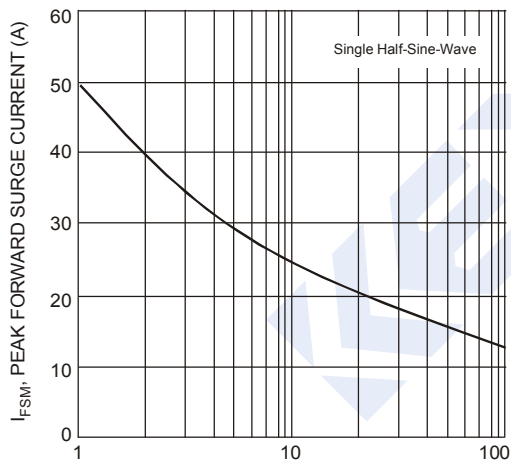


Fig. 3 Surge Current Derating Curve

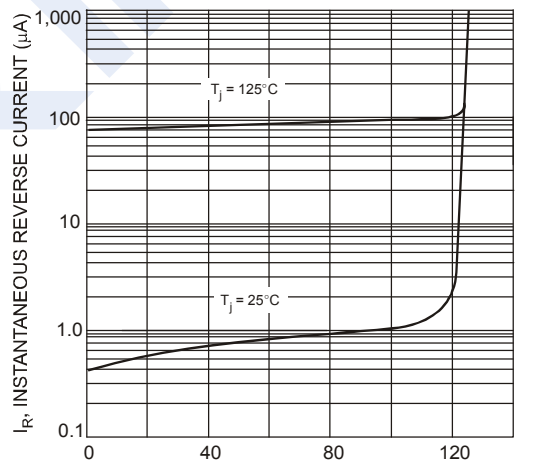
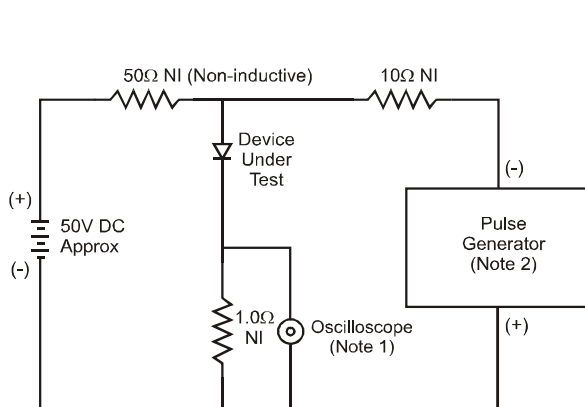
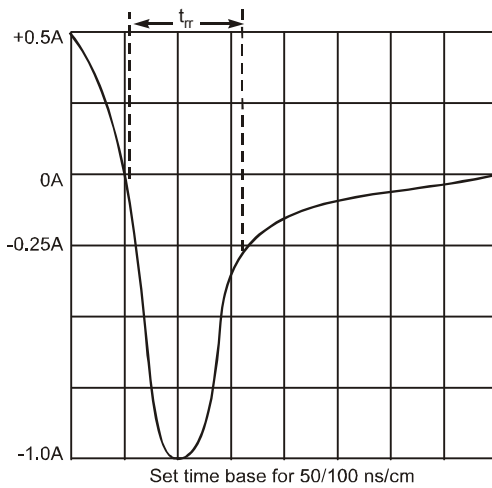


Fig. 4 Typical Reverse Characteristics



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



Set time base for 50/100 ns/cm

Fig. 5 Reverse Recovery Time Characteristic and Test Circuit