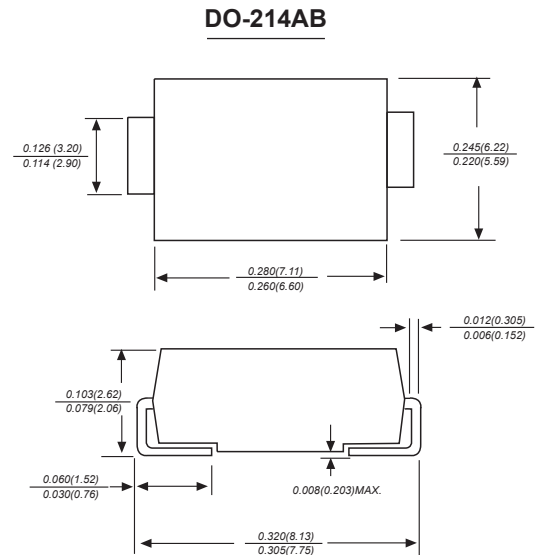


Features

- High Surge Capability
- Low Forward Voltage Drop
- High Current Capability
- Super Fast Switching Speed For High Efficiency
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

Maximum Ratings

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
ES8A	50V	35V	50V
ES8B	100V	70V	100V
ES8D	200V	140V	200V
ES8G	400V	280V	400V
ES8J	600V	420V	600V

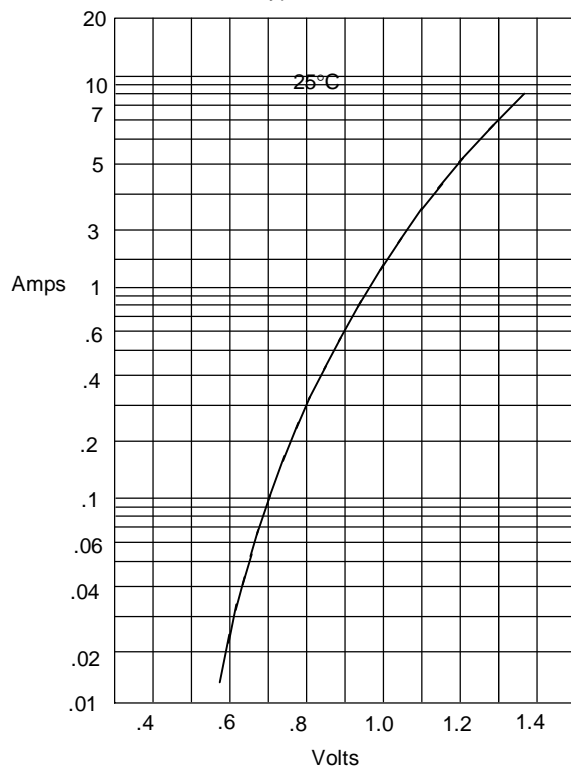


Electrical Characteristics @ 25 C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	8 A	$T_A = 55^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.35V	$I_{FM} = 8.0\text{A};$ $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μA	$T_A = 25^\circ\text{C}$
Maximum Reverse Recovery Time ER8A-ER8G ER8J	T_{rr}	50ns 60ns	$I_F=0.5\text{A}, I_R=6.0\text{A},$ $I_{rr}=0.25\text{A}$

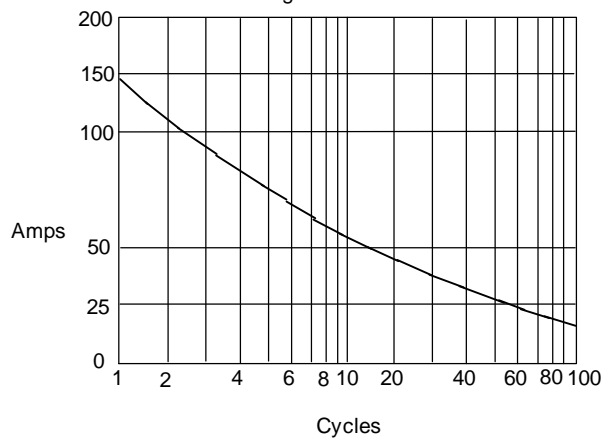
*Pulse Test: Pulse Width 300 μsec , Duty Cycle 1%

Figure 1 Typical Forward Characteristics



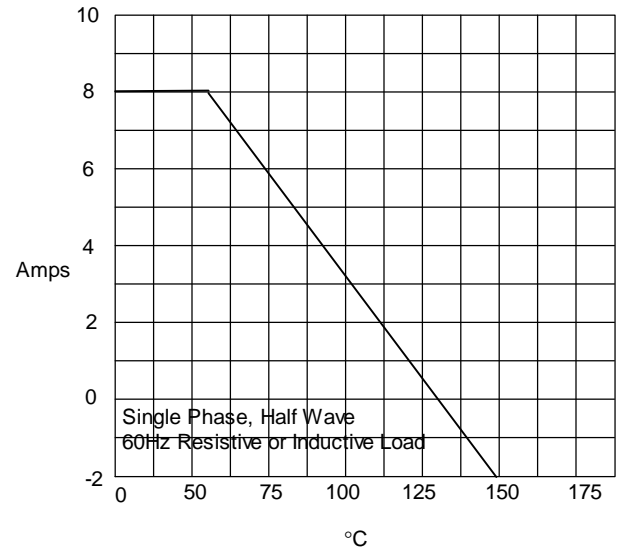
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 3
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles

Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C