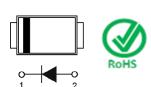
FEATURE

- Glass Passivated Die Construction
- High Forward Surge Current Capability
- Built-in Strain Relief, Ideal for Automated Placement
- Super-Fast Switching for High Efficiency
- Application: High Frequency Rectification, Freewheeling, Switching Mode
 Converters and Inverters in Computer, and Telecommunication



MECHANICAL DATA

- Case: DO-214AB, SMC, Epoxy Molded Meets 94V-0
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color Band Denotes Cathode End



ELECTRICAL CHATACTERISTIC

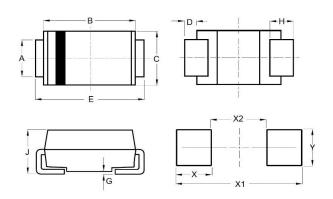
Parameter, TA=25°C		Symbol	ES3A	ES3B	ES3C	ES3D	ES3E	ES3G	ES3J	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	150	200	300	400	600	V
Maximum RMS Voltage		V _{RMS}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage		V _{DC}	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current at T _L =95°C		I _{F(AV)}	3					Α		
Peak Forward Surge Current. 8.3ms Single Half-Sine- Wave Superimposed on Rate Load		I _{FSM}	100				Α			
Maximum Forward Voltage at I _F =3A		V _F	0.95	0.95	0.95	0.95	1.30	1.30	1.70	V
Maximum Reverse Current at Rated DC Blocking Voltage	T _J =25°C	I _R	5							μΑ
	T _J =100°C		200							
Typical Junction Capacitance		CJ	45					pF		
Typical Thermal Resistance		R _{OJL}	16					°C/W		
Maximum Reverse Recovery Time		t _{rr}	35					ns		
Operating Junction Temperature Range		T _{J,} T _{STG}	-65 ~ +150					°C		

Notes:

- 1. Typical Junction Capacitance was measured at 1 MHZ and applied reverse voltage of $4.0~V_{DC}$.
- 2. Reverse recovery test conditions: I_F=0.5A, I_R=1A, I_{RR}=0.25A
- 3. Thermal resistance from junction to lead mounted on P.C.B. with 0.3x0.3" (8.0x8.0mm) copper pad areas
- 4. Single phase, half-wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

DIMENSIONS

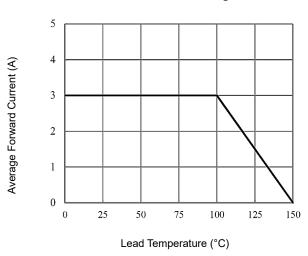
Item	Min. (mm)	Max. (mm)			
Α	2.750	3.250			
В	6.520	7.110			
С	5.520	6.220			
D	0.152	0.305			
Е	7.640	8.130			
G	0.000	0.203			
Н	0.760	1.520			
J	2.000	2.620			
Χ	2.500				
X1	9.400				
X2	4.400				
Υ	3.300				



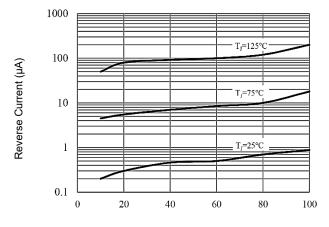
Peak Forward Surge Current (A)

CHARACTERISTIC CURVES

Forward Current Derating Curve

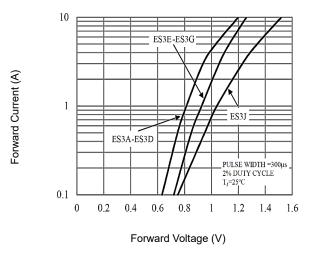


Typical Reverse Characteristics

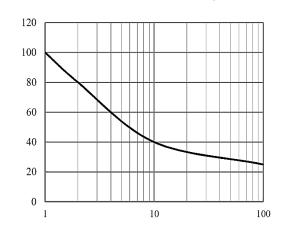


Percent of Rated Peak Reverse Voltage (%)

Typical Forward Characteristics



Non-Repetitive Peak Forward Surge Current



Number of Cycles at 60Hz

^{*}Specifications subject to change without notice.