

**SURFACE MOUNT
SUPER FAST RECTIFIERS**

**REVERSE VOLTAGE - 50 to 400 Volts
FORWARD CURRENT - 3.0 Amperes**

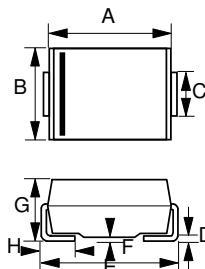
FEATURES

- Glass passivated chip
- Super fast switching for high efficiency
- For surface mounted applications
- Low forward voltage drop and high current capability
- Low reverse leakage current

MECHANICAL DATA

- Case : Molded plastic
- Case Material: Molding compound, UL Flammability classification 94V-0, "Halogen-free".
- Polarity : Color band denotes cathode
- Weight : 0.003 ounces, 0.093 grams

SMB



SMB		
DIM.	MIN.	MAX.
A	4.06	4.57
B	3.30	3.94
C	1.96	2.21
D	0.15	0.31
E	5.21	5.59
F	0.05	0.20
G	2.01	2.50
H	0.76	1.52

All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

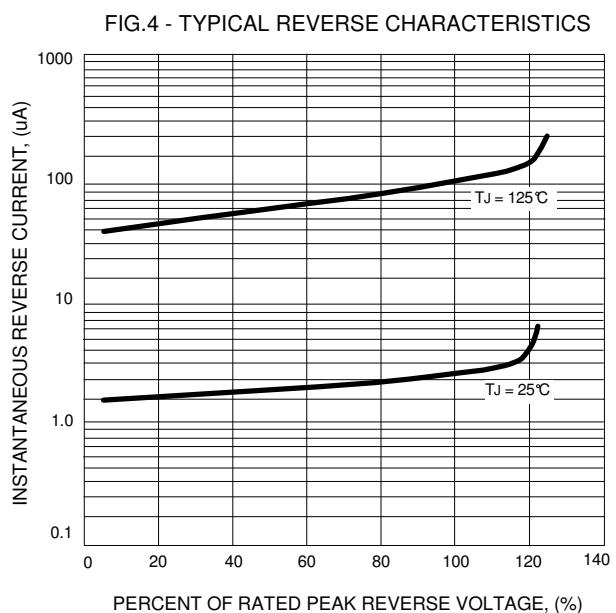
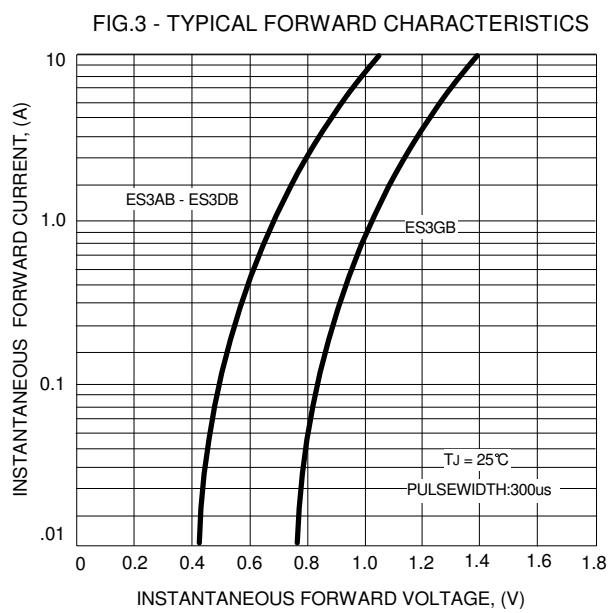
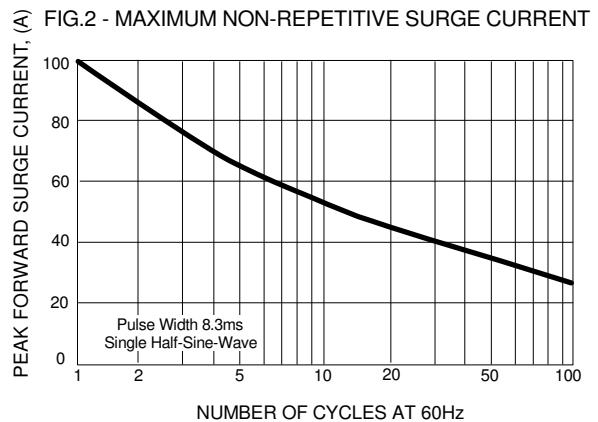
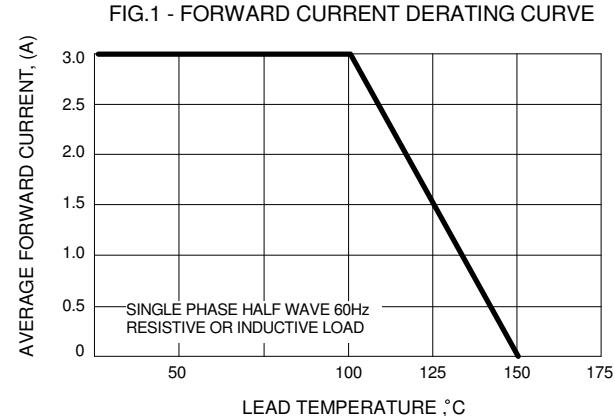
CHARACTERISTICS	SYMBOL	ES3AB	ES3BB	ES3CB	ES3DB	ES3GB	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	400	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	280	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	400	V
Maximum Average Forward Rectified Current @TL =110°C	I _(AV)				3.0		A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	I _{FSM}			100			A
Maximum forward Voltage at 3.0A DC	V _F			0.92		1.25	V
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =125°C	I _R			10 500			uA
Maximum Reverse Recovery Time (Note 1)	T _{RR}			25			ns
Typical Reverse Recovery Time	T _{RR}			20			ns
Typical Junction Capacitance (Note 2)	C _J			45			pF
Typical Thermal Resistance (Note 3)	R _{θ JA} R _{θ JL} R _{θ JC}			50 15 15			°C/W
Operating Temperature Range	T _J			-55 to + 150			°C
Storage Temperature Range	T _{STG}			-55 to + 150			°C

NOTES : 1. Reverse Recovery Test Conditions :I_F=0.5A,I_R=1.0A,I_{RR}=0.25A.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal Resistance junction to Ambient, Lead and Case.

REV.-10, Oct-2019, KSGB02



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