

ES3AB thru ES3GB

SURFACE MOUNT SUPER FAST RECTIFIERS

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

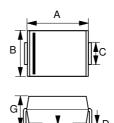
FEATURES

- 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 cathodeWeight : 0.003 ounces, 0.093 grams

SMB



SMB					
DIM.	MIN. MAX				
Α	4.06	4.57			
В	3.30	3.94			
С	1.96	2.21			
D	0.15	0.31			
E	5.21	5.59			
F	0.05	0.20			
G	2.01	2.50			
Н	0.76	1.52			
All Dimensions in millimeter					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

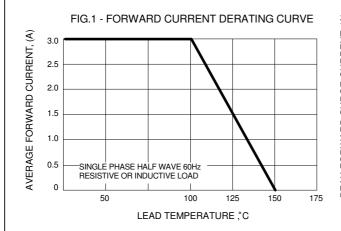
CHARACTERISTICS	SYMBOL	ES3AB	ES3BB	ES3CB	ES3DB	ES3GB	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	400	V
Maximum RMS Voltage	VRMS	35	70	105	140	280	V
Maximum DC Blocking Voltage	VDC	50	100	150	200	400	V
Maximum Average Forward Rectified Current @TL =110°C	l(AV)	3.0					А
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	IFSМ	100					A
Maximum forward Voltage at 3.0A DC	VF	0.92 1.25				1.25	V
Maximum DC Reverse Current @TJ =25°C at Rated DC Blocking Voltage @TJ=125°C	lR	10 500					uA
Maximum Reverse Recovery Time (Note 1)	TRR	25					ns
Typical Reverse Recovery Time	TRR	20					ns
Typical Junction Capacitance (Note 2)	CJ	45					pF
Typical Thermal Resistance (Note 3)	Re JA Re JL Re JC	50 15 15				°C/W	
Operating Temperature Range	TJ	-55 to + 150				ာ	
Storage Temperature Range	Tstg	-55 to + 150					င

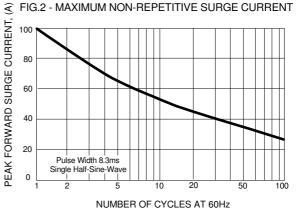
NOTES: 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

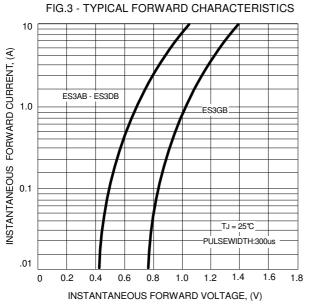
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal Resistance junction to Ambient, Lead and Case.

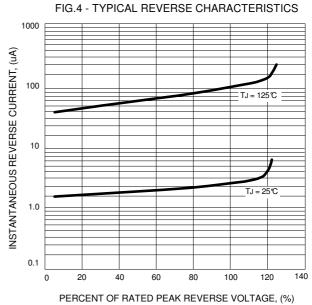
REV.-10, Oct-2019, KSGB02













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