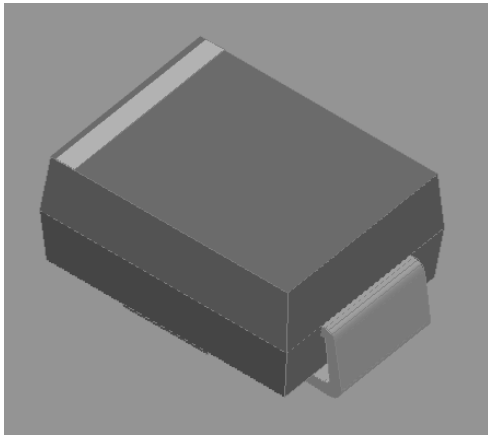


Surface Mount Super Fast Recovery Rectifier

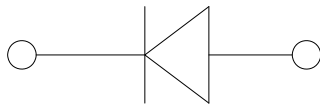


Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- High forward surge capability
- Super Fast reverse recovery time
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

For use in high frequency rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.



Mechanical Data

- **Package:** DO-214AA (SMB)
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■Maximum Ratings (T_a=25 °C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	ES3AB	ES3BB	ES3CB	ES3DB	ES3FB	ES3GB	ES3HB	ES3JB	ES3KB
Device marking code			ES3AB	ES3BB	ES3CB	ES3DB	ES3FB	ES3GB	ES3HB	ES3JB	ES3KB
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	150	200	300	400	500	600	800
Maximum RMS Voltage	VRMS	V	35	70	105	140	210	280	350	420	560
Maximum DC blocking Voltage	VDC	V	50	100	150	200	300	400	500	600	800
Average rectified output current @60Hz sine wave, resistance load, TL (Fig.1)	I _O	A	3.0								
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _j =25 °C	I _{FSM}	A	100								
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _j =25 °C			200								
Current squared time @1ms ≤ t _w ≤ 8.3ms T _j =25 °C	t _w ²	s	1.5								
Storage temperature	T _{stg}	°C	-55 ~ +150								
Junction temperature	T _j	°C	-55 ~ +150								



■Electrical Characteristics T_a



ES3AB THRU ES3KB

FIG3 Typical Forward Voltage

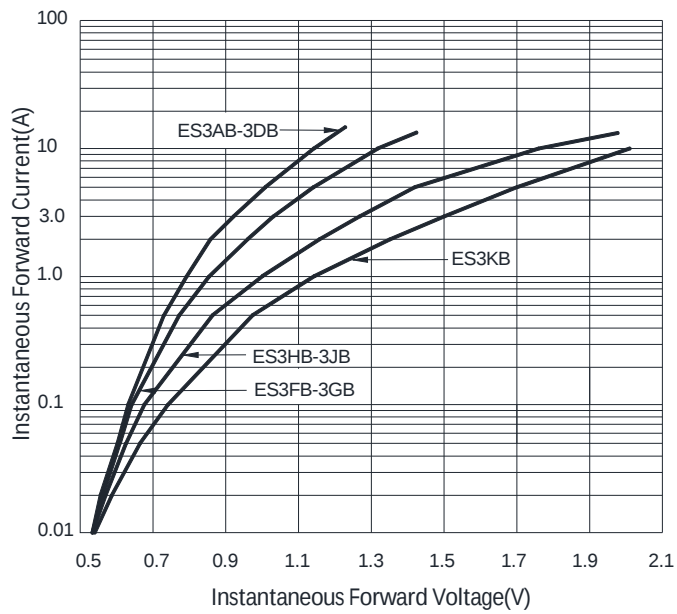
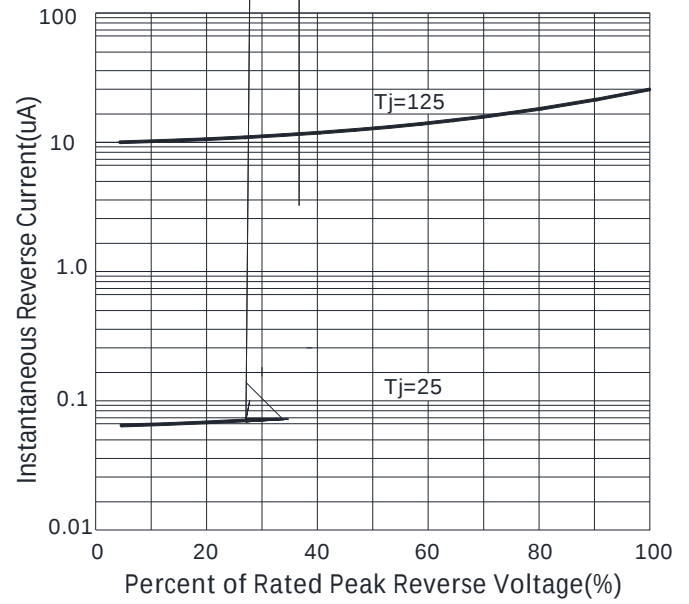


FIG4: Typical Reverse Characteristics



■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
ES3AB-ES3KB	F1	Approximate 0.096	3000	/	48000	13" reel
ES3AB-ES3KB	F2	Approximate 0.096	750	6000	24000	7" reel
ES3AB-ES3KB	F3	Approximate 0.096	500	4000	16000	7" reel



■ Outline Dimensions

DO-214AA(SMB) S

■ Suggested pad layout



ES3AB THRU ES3KB

Disclaimer

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