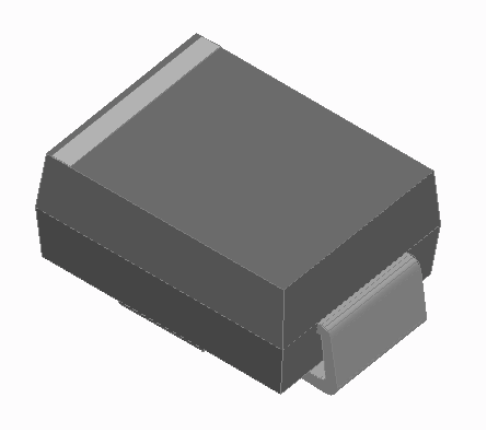
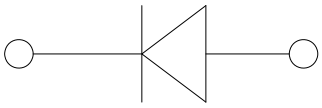
Surface Mount Super Fast Recovery Rectifier





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

	SYMBOL	UNIT	ES1AB	ES1BB	ES1CB	ES1DB	ES1FB	ES1GB	ES1HB	ES1JB	ES1KB
Device marking code			ES1AB	ES1BB	ES1CB	ES1DB	ES1FB	ES1GB	ES1HB	ES1JB	ES1KB
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	150	200	300	400	500	600	800
Maximum RMS Voltage	V_{RMS}	V	35	70	105	140	210	280	350	420	560
Maximum DC blocking Voltage	V_{DC}	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	1.0								
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25	I_{FSM}	A	30								
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			60								
Current squared time @1ms≤t≤8.3ms Tj=25	I^2t	A^2s	3.735								
Storage temperature	T_{stg}		-55 ~ +150								
Junction temperature	T_j		-55 ~ +150								

■**Electrical Characteristics** T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	ES1AB	ES1BB	ES1CB	ES1DB	ES1FB	ES1GB	[redacted]	ES1JB	ES1KB

FIG3: Typical Forward Voltage

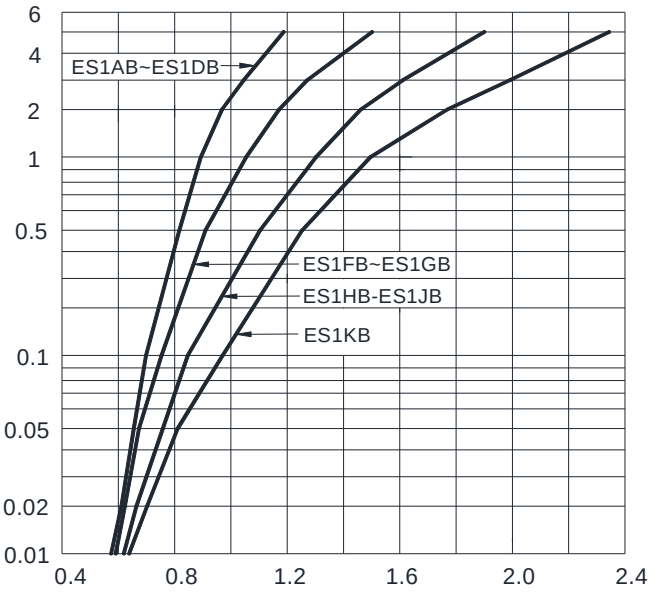
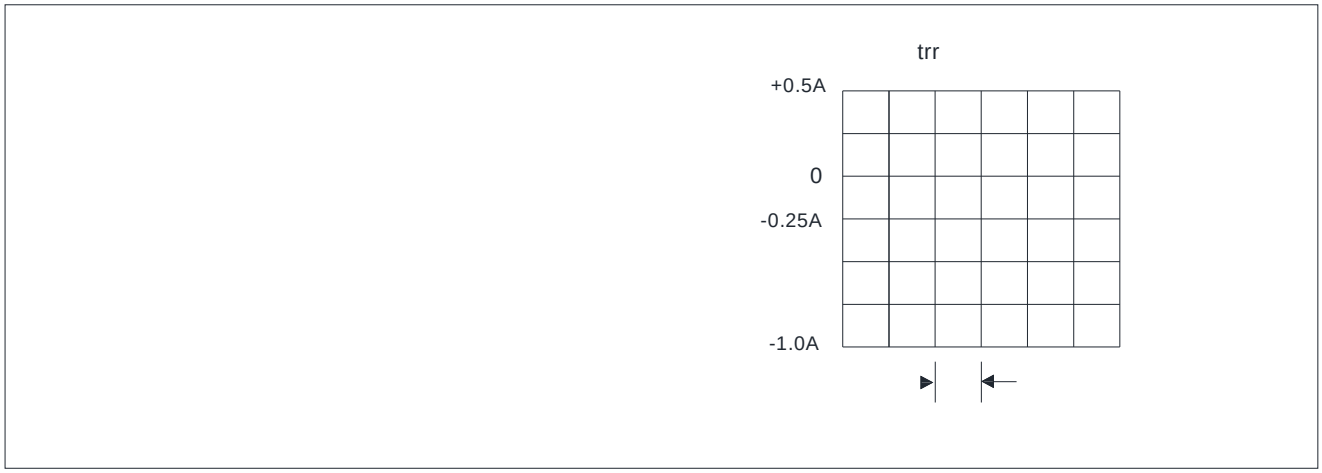


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
ES1AB-ES1JB	F1	Approximate 0.096	3000	/	48000	13” reel
ES1AB-ES1JB	F2	Approximate 0.096	750	6000	24000	7” reel
ES1AB-ES1JB	F3	Approximate 0.096	500	4000	16000	7” reel

ES1AB THRU ES1KB

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.21yangjie.com , or consult your nearest Yangjie's sales office for further assistance.