

ES2ABF THRU ES2JBF

SURFACE MOUNT SUPERFAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 600 Volts Forward Current - 2.0 Amperes

SMBF Cathode Band Top View 0.138(3.50) 0.138(3.50) 0.05(1.30) 0.05(4.2) 0.05(4.2) 0.007(0.18)			FEATURES • For surface mounted applications • Low profile package • Glass Passivated Chip Junction • Superfast reverse recovery time • Lead free in comply with EU RoHS 2011/65/EU diretives					
		ELECTRI	MECHANICAL DATA Case: JEDEC SMBF molded plastic body Terminals: leads solderable per MIL-STD-750, Method 2026 Mounting Position: Any Weight:57mg/0.002oz					
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.								
MDD Catalog Number	SYMBOLS	ES2ABF	ES2BBF	ES2DBF	ES2GBF	ES2JBF	UNITS	
Marking code		E2AB	E2BB	E2DB	E2GB	E2JB		
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	VOLTS	
Maximum RMS voltage	Vrms	35	70	140	280	420	VOLTS	
Maximum DC blocking voltage	Vdc	50	100	200	400	600	VOLTS	
Maximum average forward rectified current at TL=100°C	l(av)	2.0					Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	50					Amps	
Maximum instantaneous forward voltage at 2.0A	Vf	1.0 1.25 1.65				Volts		
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=125℃	lr	5.0 100.0					μΑ	
Maximum reverse recovery time (NOTE 1)	trr	irr 35					ns	
Typical junction capacitance (NOTE 2)	CJ						pF	
Typical thermal resistance (NOTE 3) Reja 65.0						°C/W		
Operating junction and storage temperature range $T_{J,Tstg}$ -55 to +150						°C		
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A								

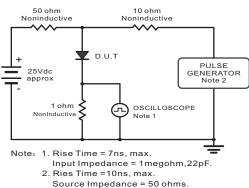
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.P.C.B. mounted with 0.5x0.5" (12.7x12.7mm) copper pad areas

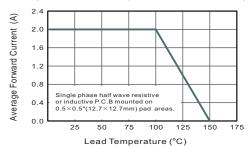


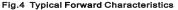
RATINGS AND CHARACTERISTIC CURVES ES2ABF THRU ES2JBF

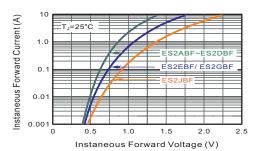
Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram

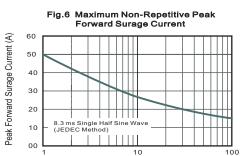












Number of Cycles

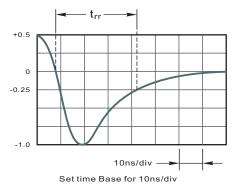


Fig.3 Typical Reverse Characteristics

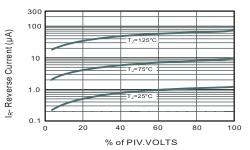
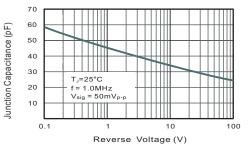


Fig.5 Typical Junction Capacitance



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

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