

MCSB140-32 40V 1A Schottky Rectifier

Schottky Rectifier Die Specification

40V 1A,32mil Schottky Rectifier, Standard VF

Product Type: MCSB140-32
Main Products Characterstics

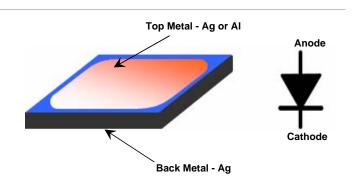
• Average forward current: IF(AV) = 1 A

• Maximum operating junction temperature: Tj = 125 °C

• Top metal: Ag or Al

· Wafer size: 6"

PDPW: 23,500die/Wafer



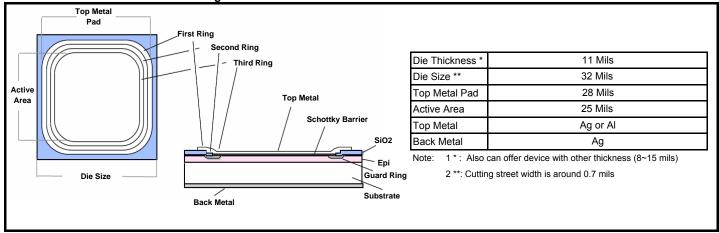
Maximum Ratings

Maximum Ratings			
Parameter	Symbol	Rating	
		MCSB140-32	
Repetitive peak reverse voltage	V_{RRM}	40 V	
Average forward current	I _{F(AV)}	1 A	
Non-repetitive peak surge current (tp = 8.3 ms, halfwave, 1 cycle)	I _{FSM}	30 A	
Storage temperature range	T_{stg}	-50 to +125 °C	
Maximum operating junction temperature	T _j	125 °C	

Static Electrical Characteristics (Ta = 25°C)

Parameter	Symbol	Value MCSB140-32
Reverse breakdown voltage I _R = 1mA	V_{BR}	45 V (Typical 52V)
Maximum forward voltage drop $I_F = 1 \text{ A}$ Pulse Test: tp = 300 μ s, $\delta \leqslant 2\%$	V_{F}	0.50 V (Typical 0.47V)
Maximum reverse current $V_R = V_{RRM}$ Pulse Test: tp = 300 µs, $\delta \leqslant 2\%$	I _R	0.1mA (Typical 0.015mA)

Device Schematics and Outline Drawing



Important Notice

Specification apply to die only. Actual performance may degrade when assembled.

MCD Semiconductor does not guarantee device performance after assembly. All operating parameters must be validated for each customer application by customer's technical experts.

Data sheet information is subjected to change without notice.

Recommended Storage Environment:

Store in original container, in dessicated nitrogen, with no contamination.

Shelf life for parts stored in above condition is 2 years.

If the storage is done in normal atmosphere shelf life is reduced to 6 months.