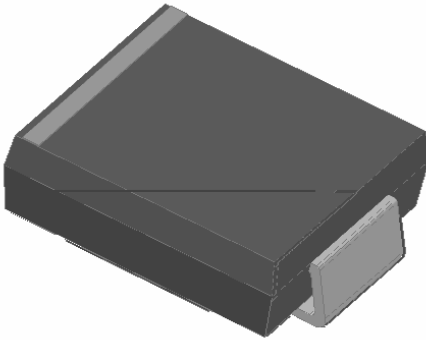


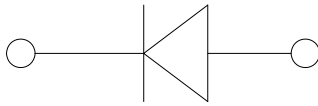


Surface Mount Schottky Rectifier



Features

- Guardring for over voltage protection
- Low power losses
- Extremely fast switching
- High forward surge capability
- High frequency operation
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Part no. with suffix means AEC-Q101 qualified H002 and JEDEC ESD22-B102
- Polarity: Color band denotes the cathode end

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

PARAMETER	SYMBOL	UNIT	SS310Q
Device marking code			SS310
Repetitive peak reverse voltage	V _{RRM}	V	100
Maximum RMS voltage	V _{RMS}	V	70
Maximum DC blocking voltage	V _{DC}	V	100
Maximum average forward rectified current (Fig. 1)	I _O	A	3.0
Surge (non-repetitive) forward current @ 60Hz half-sine wave, 1 cycle	I _{FSM}	A	80
Voltage rate of change (rated)	dV/dt	V/μs	10000
Storage temperature	T _{stg}	°C	-55 ~ +175
Junction temperature and storage temperature	T _J	°C	-55 ~ +175

■ Electrical Characteristics (T_a = 25 °C Unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Instantaneous forward voltage	V _F	I _F = 3A	T _J = 25 °C	0.76	0.8	V
			T _J = 125 °C	0.63	0.75	
Reverse current	I _R	Rated V _R	T _J = 25 °C	-	1	μA
			T _J = 125 °C	30	150	
Typical junction capacitance	C _J	V _R = 4V, f = 1MHz		95	-	pF



Thermal Characteristics^ $T_a = 25$



SS310Q

Disclaimer

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