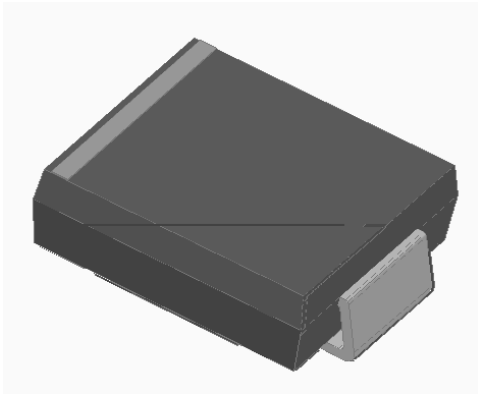
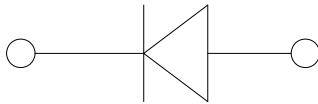


Surface Mount Schottky Rectifier



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 (Ta = 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 Ta = 25 °C Unless otherwise specified

PARAMETER	SYMBOL	TEST CONDITIONS	TYP	MAX	UNIT
Instantaneous forward voltage	V_F	$I_F = 3A$	$T_J = 25^\circ C$	0.76	V
			$T_J = 125^\circ C$	0.63	
Reverse current	I_R	Rated V_R	$T_J = 25^\circ C$	-	μA
			$T_J = 125^\circ C$	30	
Typical junction capacitance	C_J	$V_R = 4V, f = 1MHz$	95	-	pF



Thermal Characteristics^ $T_a = 25$



SS310Q

Disclaimer

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