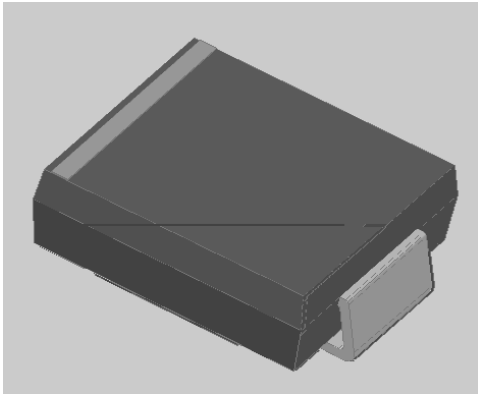


Surface Mount Schottky Rectifier

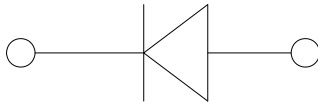


Features

- Guardring for overvoltage protection
- Low power loss
- 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 "Q" means AEC-Q101 qualified

Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, automotive and polarity protection applications.



Mechanical Data

- **Package:** DO-214AB (SMC)
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Color band denotes the cathode end

■ Maximum Ratings (Ta=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS810Q
Device marking code			SS810
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 at T_L (Fig.1)	I_O	A	8.0
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, $T_J=25$	I_{FSM}	A	150
Voltage rate of change (rated V_R)	dV/dt	V/ μ s	10000
Storage temperature	T_{stg}		-55 ~+175
Junction temperature	T_J		-55 ~+175

■ Electrical Characteristics (Ta=25 Unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Instantaneous forward voltage	V_F	$I_F=8A$	$T_J=25$	0.76	0.85	V
			$T_J=125$	-	0.7	
Reverse current	I_R	Rated V_R	$T_J=25$	0.8	10	μ A
			$T_J=125$	-	200	
Typical junction capacitance	C_J	$V_R=4V, f=1MHz$		270	-	pF



■ Outline Dimensions

DO-214AB (SMC)		
Dim	Min	Max
A	6.60	7.11
B	2.85	3.27
C	5.59	6.22
D	7.75	8.13
E	1.99	2.61
F	0.15	0.31
G	0.76	1.52
H	0.05	0.20

Ω Suggested pad layout



DO-214AB (SMC)	
Dim	Min
P1	9.9
P2	3.84
Q1	3.03
Q2	3.82

Dimensions in millimeters



Disclaimer

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