



Surface Mount Schottky Rectifier

Features

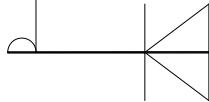
- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Part no. with suffix "Q" means AEC-Q101 qualified

Typical Applications

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

Mechanical Data

- **Package:** DO-214AA (SMB)
Molding compound meets UL 94 V-0 flap



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Repetitive peak reverse voltage	V_{RRM}	V	150	200
Maximum RMS voltage	V_{RMS}	V	105	140
Maximum DC blocking voltage	V_{DC}	V	150	200
Maximum average forward rectified current at T_L (Fig.1)	I_O	A	2.0	
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, $T_J=25$	I_{FSM}	A	75	
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($T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Instantaneous forward voltage	V_F	$I_F=2A$	$T_J=25$	0.82	0.9	V
			$T_J=125$	-	0.75	
Reverse current	I_R	Rated V_R	$T_J=25$	-	5	μ A
			$T_J=125$	15	150	
Typical junction capacitance	C_J	$V_R=4V, f=1MHz$		40	-	pF



SS215Q THRU SS220Q

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