



## Surface Mount Schottky Rectifier

### Features

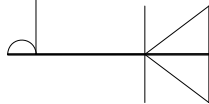
- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Part no. with suffix "Q" means AEC-Q101 qualified

### 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/ $\mu$ 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	$\mu$ 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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