

Features

- Halogen Free. "Green" Device (Note 1)
- Fully Automotive Qualified to AEC-Q101
- Low Profile Package
- High Surge Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

2 Amp Surface Mount Schottky Rectifier 100 to 200 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

		Val		
Parameter	Symbol	SS210Q-L	SS220Q-L	Unit
Peak Repetitive Reverse Voltage	V _{RRM}			
Working Peak Reverse Voltage	V _{RWM}	100	200	V
DC Blocking Voltage	V _R			
RMS Reverse Voltage	V _{RMS}	70	140	V
Average Rectified Forward Current @ T _L =125°C	I _{F(AV)}	2		А
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave	I _{FSM}	75		Α
Current Squared Time @ 1ms≤t≤8.3ms	l²t 23.34		.34	A ² s

Marking code

Part Number	Marking code
SS210Q-L	SS210
SS220Q-L	SS220

Internal Structure

Pin	Description	Simplified outline	Graphic symbol
1	cathode	1 MCC XXXX 2	
2	anode	XXXX = Marking code YYWW = Date Code	1 0

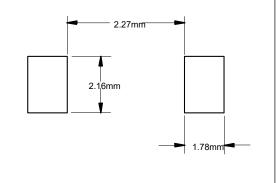
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

SMA (DO-214AC)

DIMENSIONS						
DIM INCHES		HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOTE	
Α	0.075	0.096	1.90	2.44		
В	0.050	0.064	1.27	1.63		
С	0.002	0.008	0.051	0.203		
D		0.020		0.51		
Е	0.030	0.060	0.76	1.52		
F	0.065	0.091	1.65	2.32		
G	0.189	0.220	4.80	5.59		
Н	0.157	0.187	4.00	4.75		
J	0.090	0.115	2.25	2.92		

SUGGESTED SOLDER PAD LAYOUT





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T_J	Operating Junction Temperature Range		-55		175	°C
T _{stg}	Storage Temperature Range		-55		175	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		30		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		75		°C/W

Note:

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage						
SS210Q-L	V _F	I _F =2A;T _J =25°C		0.77	0.80	
		I _F =2A;T _J =125°C		0.62	0.66	V
SS220Q-L		$I_F=2A;T_J=25^{\circ}C$		0.82	0.90	
		I _F =2A;T _J =125°C		0.68	0.75	
Reverse Current						
SS210Q-L	I _R	at Rated V _R ;T _J =25°C			5	
		at Rated V _R ;T _J =125°C			150	uA
SS220Q-L		at Rated V _R ;T _J =25°C			5	u/\
		at Rated V _R ;T _J =125°C			150	
Junction Capacitance						
SS210Q-L	CJ	$V_R=4V; f=1MHz; T_J=25$ °C		62		pF
SS220Q-L				40		

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^{1.}Mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper.



Curve Characteristics

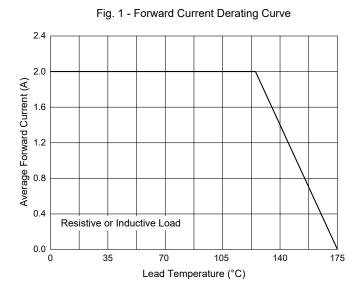


Fig. 3 - Typical Forward Characteristics

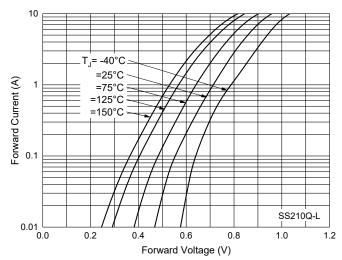


Fig. 5 - Typical Forward Characteristics

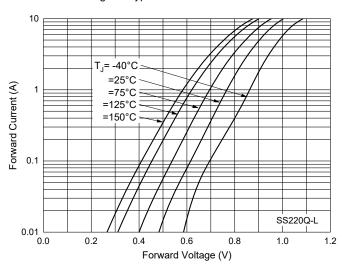


Fig. 2 - Maximum Non-Repetitive Peak Forward
Surge Current

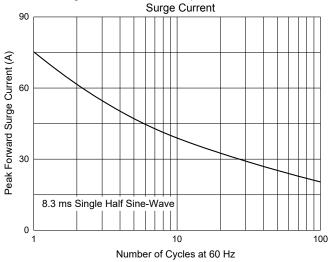


Fig. 4 - Typical Reverse Leakage Characteristics

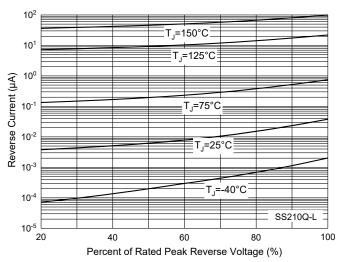
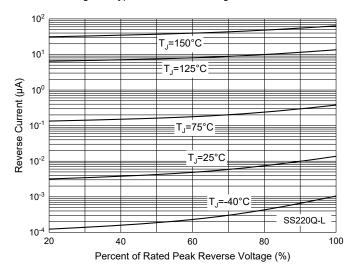


Fig. 6 - Typical Reverse Leakage Characteristics





Curve Characteristics

Fig. 7 - Capacitance Characteristics

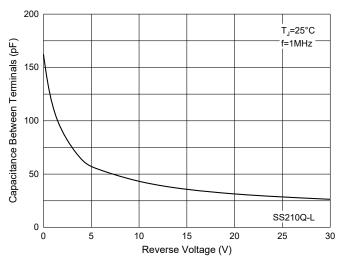
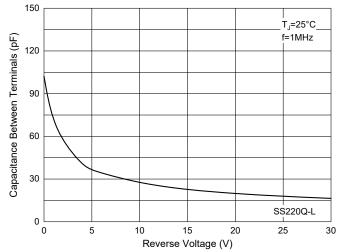


Fig. 8 - Capacitance Characteristics





Ordering Information

Device	Packing		
Part Number-LTP	Tape&Reel:5Kpcs/Reel		

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