

- Guardring for overvoltage 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 "Q" means AEC-Q101 qualified

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

- DO-214AB (SMC)
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Cathode line denotes the cathode end

($T_a=25$ Unless otherwise specified)

Device marking code			SS58	SS510
Repetitive peak reverse voltage	V_{RRM}	V	80	100
Maximum RMS voltage	V_{RMS}	V	56	70
Maximum DC blocking voltage	V_{DC}	V	80	100
Maximum average forward rectified current at T_L (Fig.1)	I_O	A	5.0	
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, $T_J=25$	I_{FSM}	A	120	
Voltage rate of change (rated V_R)	dV/dt	V/ μs	10000	
Storage temperature	T_{stg}		-55 ~+175	
Junction temperature	T_J		-55 ~+175	

$T_a=25$ Unless otherwise specified

Instantaneous forward voltage	V _F	I _F =5A	T _J =25	0.77	0.8	V
			T _J =125	0.63	0.75	
Reverse current	I _R	Rated V _R	T _J =25	0.2	10	μA
			T _J =125	-	200	
Typical junction capacitance	C _J	V _R =4V,f=1MHz		150	-	pF



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

P1	9.9
P2	3.84
Q1	3.03
Q2	3.82

Dimensions in millimeters
