



Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, 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	SS102	SS103	SS104	SS105	SS106	SS108	SS1010	SS1015	SS1020
Device marking code			SS102	SS103	SS104	SS105	SS106	SS108	SS1010	SS1015	SS1020
Repetitive Peak Reverse Voltage	V_{RRM}	V	20	30	40	50	60	80	100	150	200
Average Rectified Output Current @60Hz sine wave, Resistance load, TL (FIG.1)	I_O	A	10.0								
Surge(Non-repetitive)Forward Current @60Hz Half-sine wave,1 cycle, Ta=25	I_{FSM}	A	120								
Storage Temperature	Tstg		-55 ~+150								
Junction Temperature	Tj		-55~+125				-55 ~+150				

									SS1010	SS1015	SS1020
Maximum instantaneous forward voltage drop per diode	V_F	V	$I_{FM}=8.0A$ per diode	0.6	0.7	0.85	0.95				
			T	20		5.0					

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS



SS102 THRU SS1020

Thermal Characteristics (Ta=25 Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	SS102	SS103	SS104	SS105	SS106	SS108	SS1010	SS1015	SS1020
Thermal Resistance	Between junction and ambient	R _{J-A}	/W	65 ⁽¹⁾								
	Between junction and lead	R _{J-L}		8 ⁽¹⁾								

Note (1)

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm) copper pad areas

Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS102~SS1020	F1	Approximate 0.254	3000	/	42000	13" reel

Characteristics (Typical)





