



Mechanical Data

Package: DO-204AC(DO-15)

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	SF21G	SF22G	SF23G	SF24G	SF25G	SF26G	SF27G	SF28G
Device marking code			SF21G	SF22G	SF23G	SF24G	SF25G	SF26G	SF27G	SF28G
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	150	200	300	400	500	600
Maximum RMS Voltage	V_{RMS}	V	35	70	105	140	210	280	350	420
Maximum DC blocking Voltage	V_{DC}	V	50	100	150	200	300	400	500	600
Average Forward Current @60Hz sine wave, Resistance load, Ta =50	$I_{F(AV)}$	A	2.0							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Tj=25	I_{FSM}	A	50							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			100							
Current squared time @1ms t8.3 ms Tj=25 Rating of per diode	I^2t	A ² s	10.375							
Typical junction capacitance @Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	C_j	pF	32				18		13	
Storage Temperature	T_{stg}		-55 ~ +150							
Junction Temperature	T_j		-55 ~ +150							

Electrical Characteristics Ta=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SF21G	SF22G	SF23G	SF24G	SF25G	SF26G	SF27G	SF28G
Maximum instantaneous forward voltage drop per diode	V_F	V	$I_{FM}=2.0A$	0.95				1.3		1.7	
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	=25		2.5							
			$T_j=125$	100							
Maximum reverse recovery time	t_{rr}	ns	$I_F=0.5A, I_R=1.0A, I_r=0.25A$	35							



Thermal Cha

PARAMETER

Typical Thermal Resi

Instantaneous
0.1
0.02

, 30-Jan-21

Yangz



Outline Dimensions



SF21G THRU SF28G

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