



### 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 <sup>2</sup> 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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