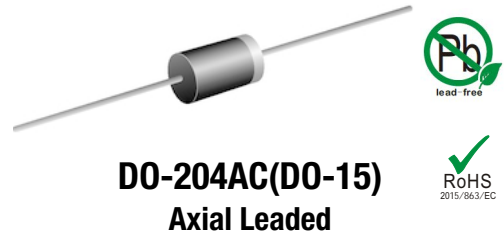


# SF21 THRU SF28

Plastic Supper Fast Recovery Rectifiers  
 Reverse Voltage 50 ~ 600 V  
 Forward Current 2.0 A

## Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:  
260°C/10seconds
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking



## Mechanical Data

- Case:DO-15 Molded pplastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free

## Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

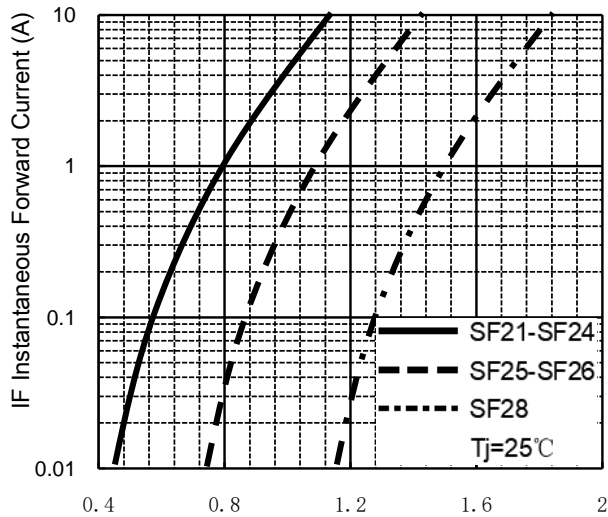
Parameter	Symbols	SF21	SF22	SF23	SF24	SF25	SF26	SF28	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	150	200	300	400	600	V
Maximum RMS voltage	$V_{RMS}$	35	70	105	140	210	280	420	V
Maximum DC blocking voltage	$V_{DC}$	50	100	150	200	300	400	600	V
Maximum average forward rectified current	$I_{F(AV)}$	2.0							A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	$I_{FSM}$	50							A
@ $I_F=2.0A$ Maximum forward voltage	$V_F$	0.95			1.25		1.70		V
@VDC Maximum reverse current	$I_R$	5.0							$\mu A$
$T_A=25^\circ C$		100							
$I_F=0.5A, I_R=1.0A, I_{RR}=0.25A$ MAX. reverse recovery time	$T_{RR}$	35							nS
Typical thermal resistance (Note 1)	$R_{\theta JA}$	60							$^\circ C/W$
VR=4.0V,f=1MHz Type junction capacitance	$C_J$	22							pF
Operating junction temperature rang	$T_J$	-55 --- +125							$^\circ C$
Storage temperature rang	$T_{STG}$	-55 --- +150							$^\circ C$

Note:

- 1) Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted.

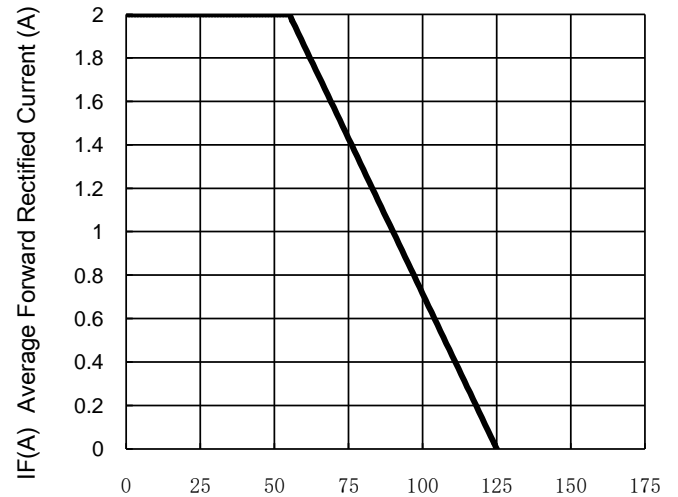
## Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



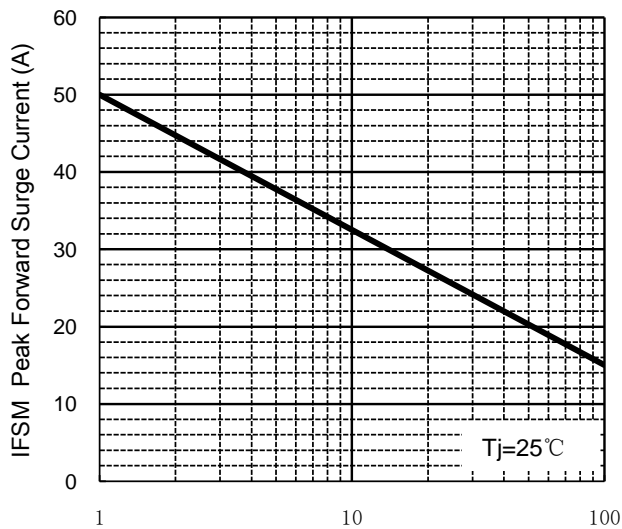
VF Instantaneous Forward Voltage (V)

FORWARD CURRENT DERATING CURVE



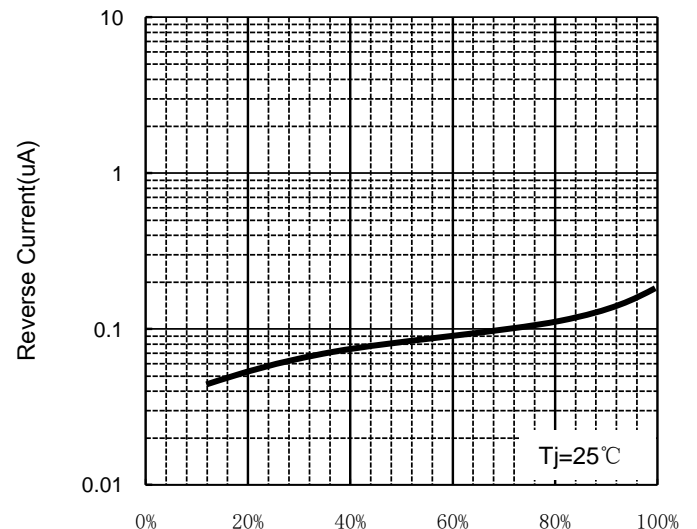
Tamb, ambient temperature (°C)

MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



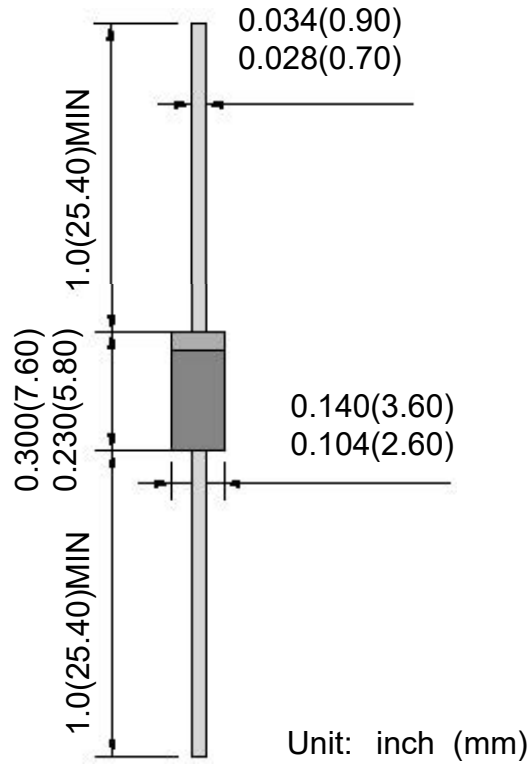
Number of Cycles at 60 Hz.

Typical Reverse Characteristics



Percent Of Rated Peak Reverse voltage %

### Package Outline



### Package Information

Qty: 4,000 /Tape and reel  
500 /Bulk