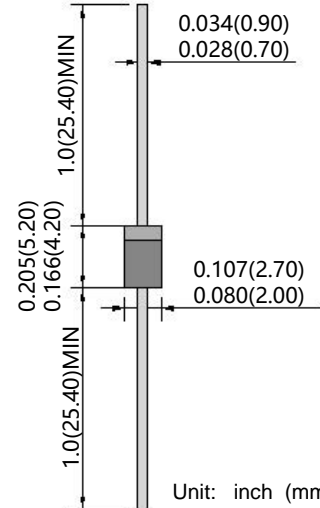


## Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:  
260°C/10seconds,9.5mm lead length
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking

## Mechanical Data

- Case:DO-41 Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free



DO-41

## Maximum Ratings & Characteristics

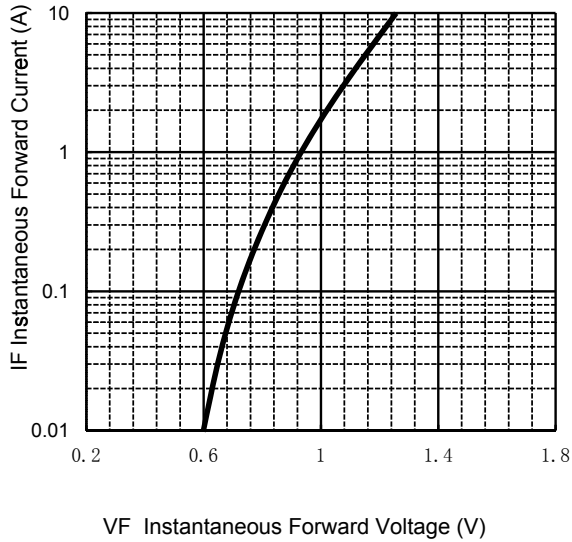
Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	$I_{F(AV)}$	1.0							A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	$I_{FSM}$	30							A
@ $I_F=1.0A$ Maximum forward voltage	$V_F$	1.1							V
@ $V_{DC}$ Maximum reverse current	$I_R$	5							$\mu A$
$T_A= 25^\circ C$		100							
$T_A= 100^\circ C$									
Typical thermal resistance (Note 1)	$R_{\theta JA}$	65							$^\circ C/W$
$V_R=4.0V, f=1MHz$ Type junction capacitance	$C_j$	10							pF
Operating junction and storage temperature rang	$T_j, T_{STG}$	-55 --- +150							$^\circ C$

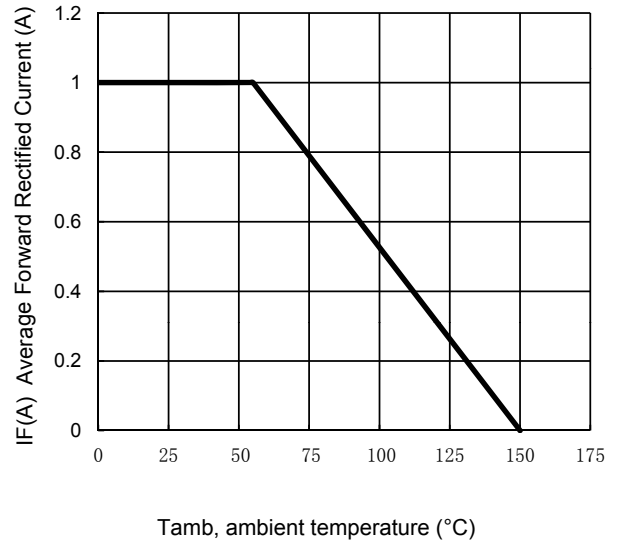
Note:1) Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted.

## Characteristic Curves

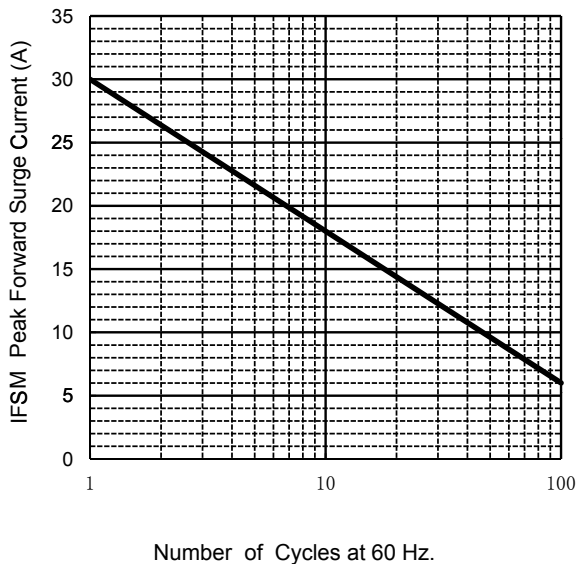
**TYPICAL FORWARD CHARACTERISTIC**



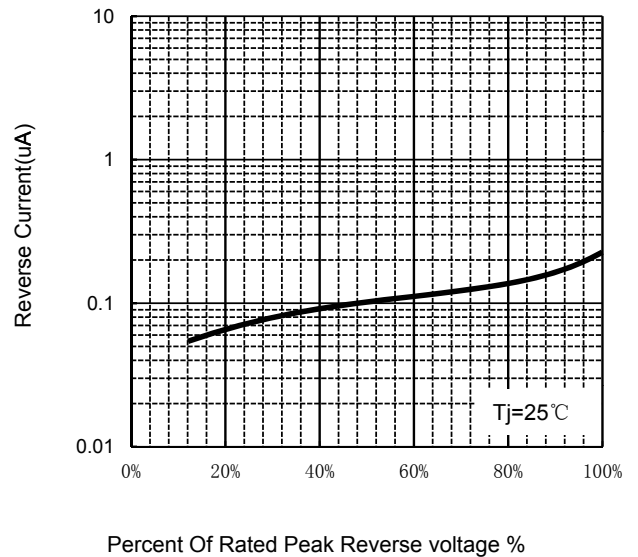
**FORWARD CURRENT DERATING CURVE**



**MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT**



**Typical Reverse Characteristics**



## Package Information

Qty: 5,000 /Tape and reel  
 500 /Bulk