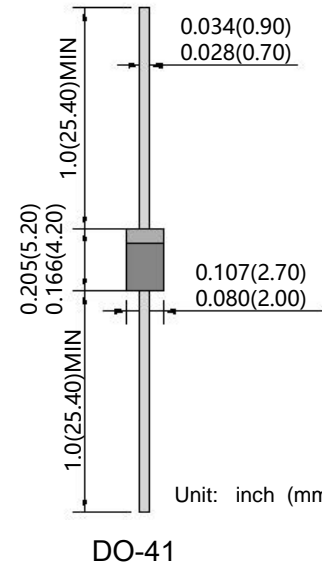


## Features

- 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



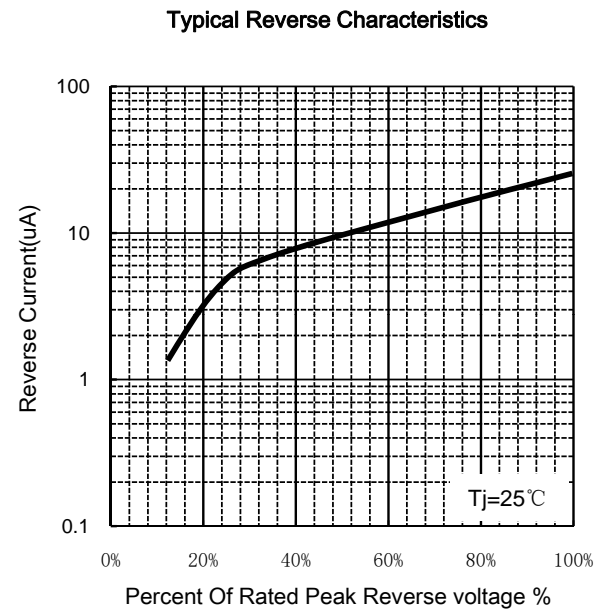
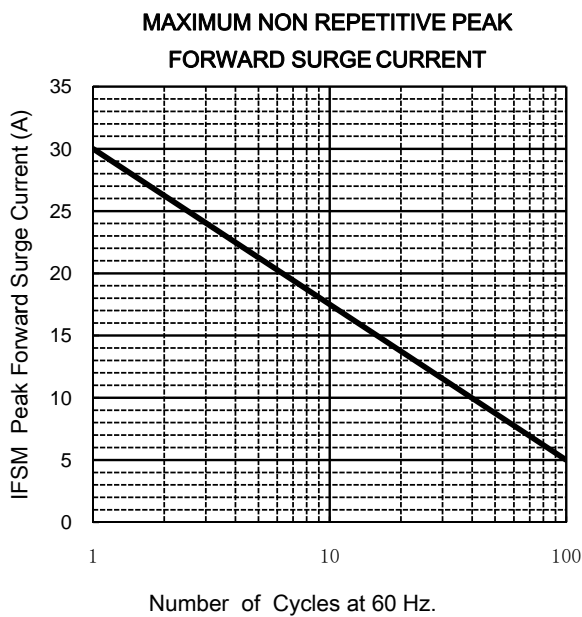
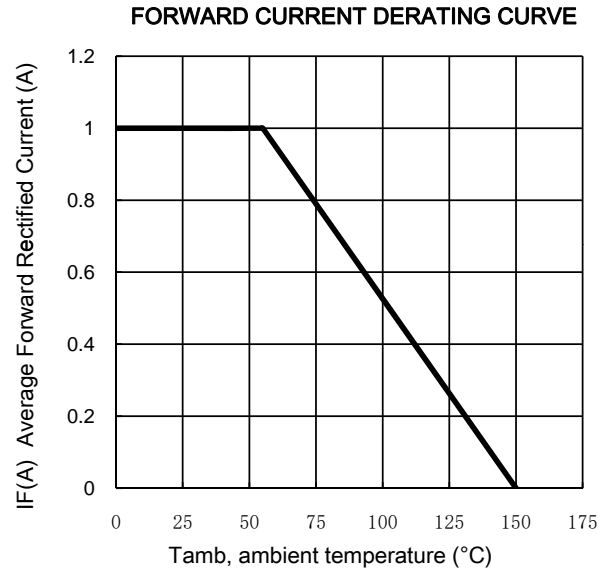
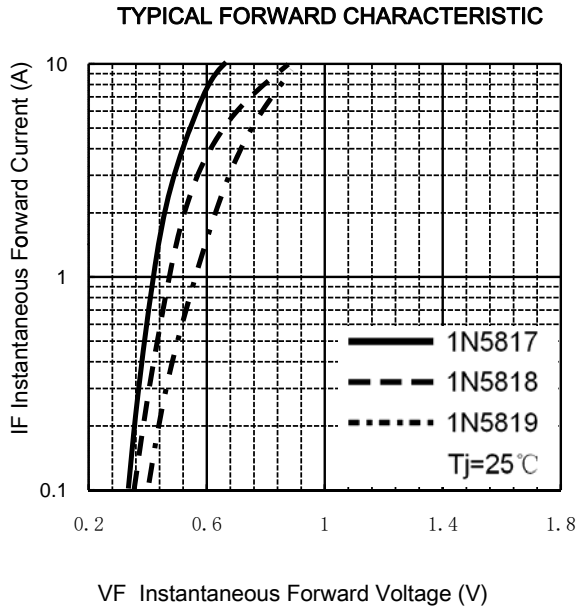
## Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	1N5817	1N5818	1N5819	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	V
Maximum RMS voltage	$V_{RMS}$	14	21	28	V
Maximum DC blocking voltage	$V_{DC}$	20	30	40	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	$V_F$	0.45	0.55	0.60	V
@ $V_{dc}$ Maximum reverse current	$I_R$	$T_A=25^{\circ}C$	500		$\mu A$
		$T_A=100^{\circ}C$	20		mA
Typical thermal resistance (Note 1)	$R_{\theta JA}$	60			$^{\circ}C/W$
$V_R=4.0V, f=1MHz$ Type junction capacitance	$C_j$	110			pF
Operating junction	$T_j$	-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



## Package Information

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