

## 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



**DO-204AL(DO-41)**  
**Axial Leaded**



## 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.

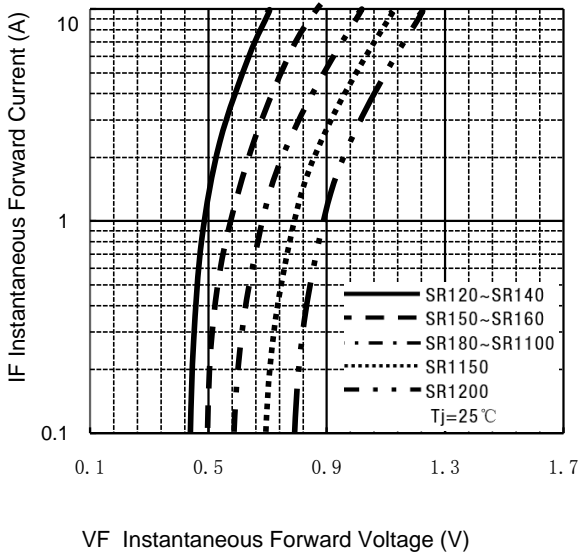
Parameter	Symbol	SR 120	SR 130	SR 140	SR 150	SR 160	SR 180	SR 1100	SR 1150	SR 1200	Unit	
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	40	40	50	60	80	100	150	200	V	
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	V	
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	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	$V_F$	0.55			0.70		0.85		0.92	0.95	V	
@ $V_{DC}$ Maximum reverse current	$I_R$	500					100					$\mu A$
		20					10					mA
Typical thermal resistance (Note 1)	$R_{\theta JA}$	55									°C/W	
VR=4.0V,f=1MHz Type junction capacitance	$C_J$	110									pF	
Operating junction temperature rang	$T_J$	-55 --- +125					-55 --- +150					°C
Storage temperature rang	$T_{STG}$	-55 --- +150									°C	

Note:

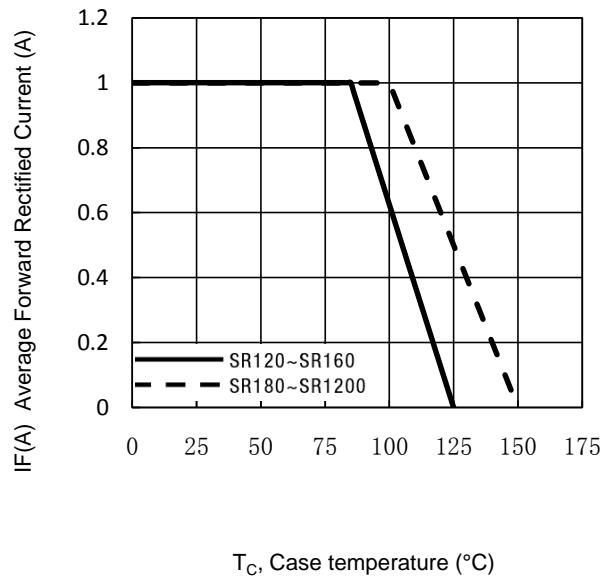
1) Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted.

## Characteristic Curves

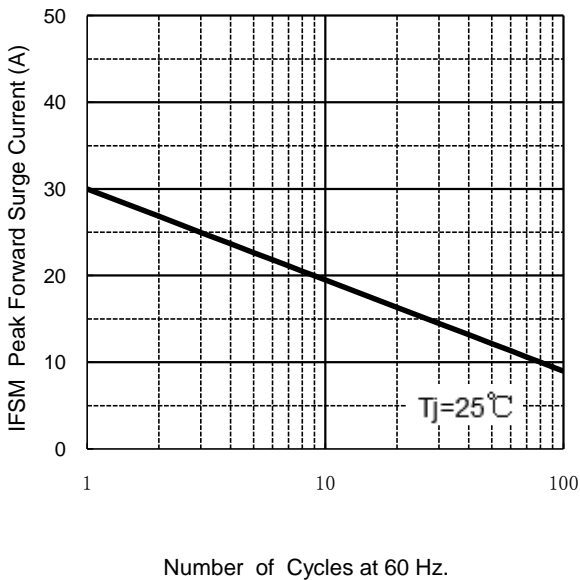
**TYPICAL FORWARD CHARACTERISTIC**



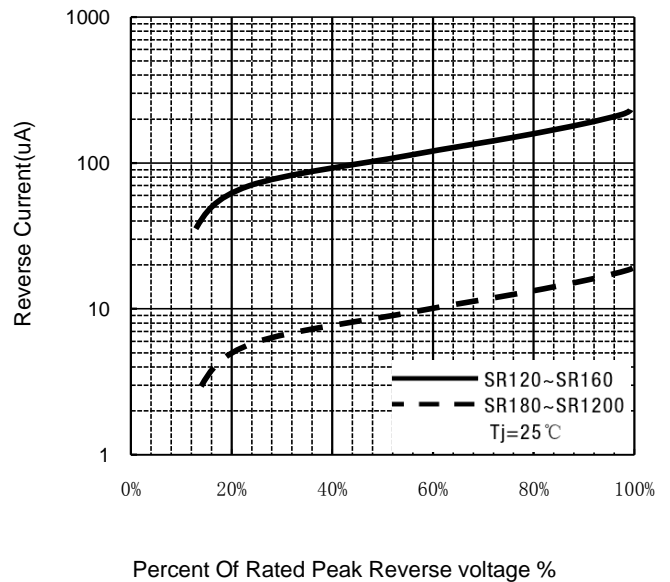
**FORWARD CURRENT DERATING CURVE**



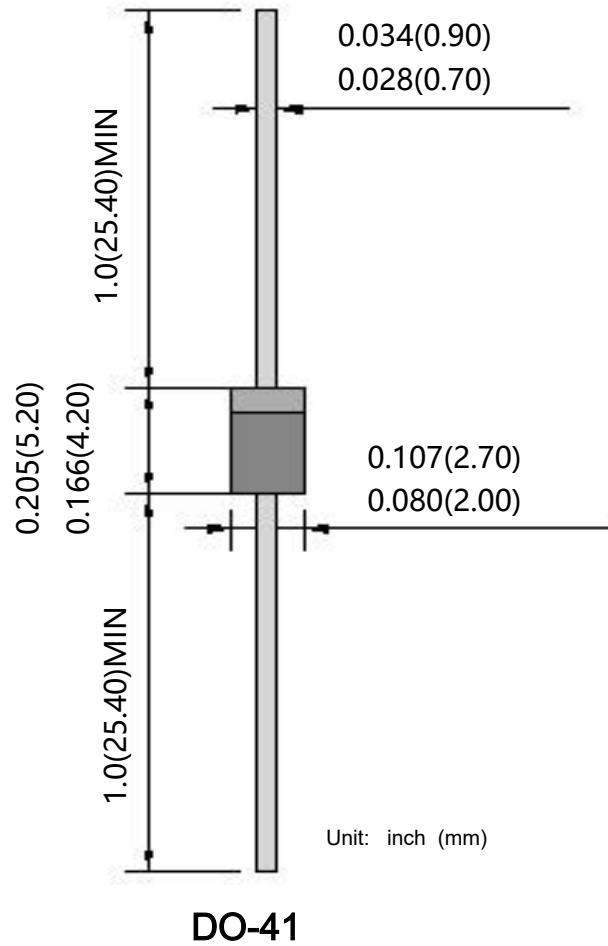
**MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT**



**Typical Reverse Characteristics**



**Package Outline**



**Package Information**

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