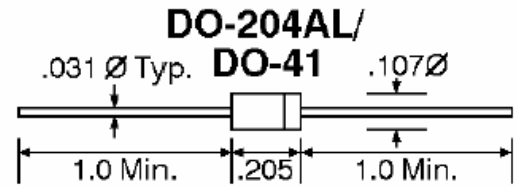


### Silicon Rectifier 1.0A

Ordering Code: 1N400X-TCI-TR

#### Features

- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability



Dimensions in mm

#### Maximum Ratings & Electrical Characteristics ( $T_{Ambient}=25^{\circ}C$ unless noted)

Symbol	Description	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	BY133	UNIT	Conditions
<b>VRRM</b>	Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	1300	V	
<b>VRMS</b>	Maximum RMS Voltage	35	70	140	280	420	560	700	910	V	
<b>VDC</b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	1300	V	
<b>Io</b>	Maximum Average Forward Output Rectified Current	1.0								A	.375" (9.5mm) lead length $T_A = 75^{\circ}C$
<b>IFSM</b>	Peak Forward Surge Current	30								A	8.3ms single half sine-wave superimposed on rated load (JEDEC method) $T_L = 110^{\circ}C$
<b>VF</b>	Maximum Instantaneous Forward Voltage	1.1								V	I <sub>AV</sub> at 1.0 A
<b>IR</b>	Maximum DC Reverse Current at Rated DC Blocking Voltage	5								$\mu A$	$T_A = 25^{\circ}C$
		50									$T_A = 100^{\circ}C$
<b>CJ</b>	Typical Junction Capacitance	30								pf	note 2
<b>R<math>\theta</math>-JA</b>	Typical Thermal Resistance	50								$^{\circ}C/W$	Thermal Resistance from Junction to Ambient .375" (9.5mm) lead length
<b>TJ</b>	Operating Temperature Range	-65 to +125								$^{\circ}C$	

**Note:** Resistive or inductive load.  
For capacitive load, derate current by 20%.

**Mechanical Data**

<b>Case:</b>	DO-41 Molded Plastic Use UL 94V-0 Recognized Flame Retardent Epoxy
<b>Terminals:</b>	Axial Leads, Solderable Per MIL-STD-202, Method 208 Guaranteed
<b>Polarity:</b>	Color Band Denotes Cathode End
<b>Mounting Position:</b>	Any

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