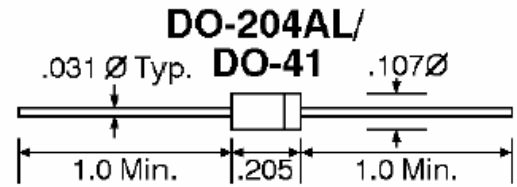


Silicon Rectifier 1.0A

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

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

Mechanical Data

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

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