

1N4001L thru 1N4007L

REVERSE VOLTAGE – 50 to 1000 Volts PLASTIC SILICON RECTIFIERS **FORWARD CURRENT – 1.0 Ampere FEATURES** A - 405 · Low cost В А Diffused junction А · Low forward voltage drop · Low reverse leakage current ¥_ • High current capability C **↓** D **MECHANICAL DATA** Case: JEDEC A-405, molding compound has A - 405 UL flammability classification 94V-0 DIM MAX MIN • Polarity: Color band denotes cathode Α 25.4 5.20 В 4.10 • Weight: 0.008 ounces, 0.22 grams С 0.53 Ø 0.64 Ø Mounting Position: Any D 2.00 Ø 2.70 Ø All dimension in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER	SYMBOL	1N4001L	1N4002L	1N4003L	1N4004L	1N4005L	1N4006L	1N4007L	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Average rectified output current per device @T _A =75 ⁻ C	I _(AV)	1.0					А		
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}				30				А
I^2 t rating for fusing (t = 8.3ms)	l²t				3.7				A ² S
Operating temperature range	TJ			-	-55 to +12	5			°C
Storage temperature range	T _{STG}			-	-55 to +150)			°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		SYMBOL	MAX.	UNIT
Forward voltage	I _F = 1.0A	T _J = 25°C	V _F	1.0	V
Leakage current	V_{R} at rated	T _J = 25°C T _J = 100°C	I _R	5 50	uA
Typical junction capacitance (Note 1)		CJ	15	pF	

THERMAL CHARACTERISTICS

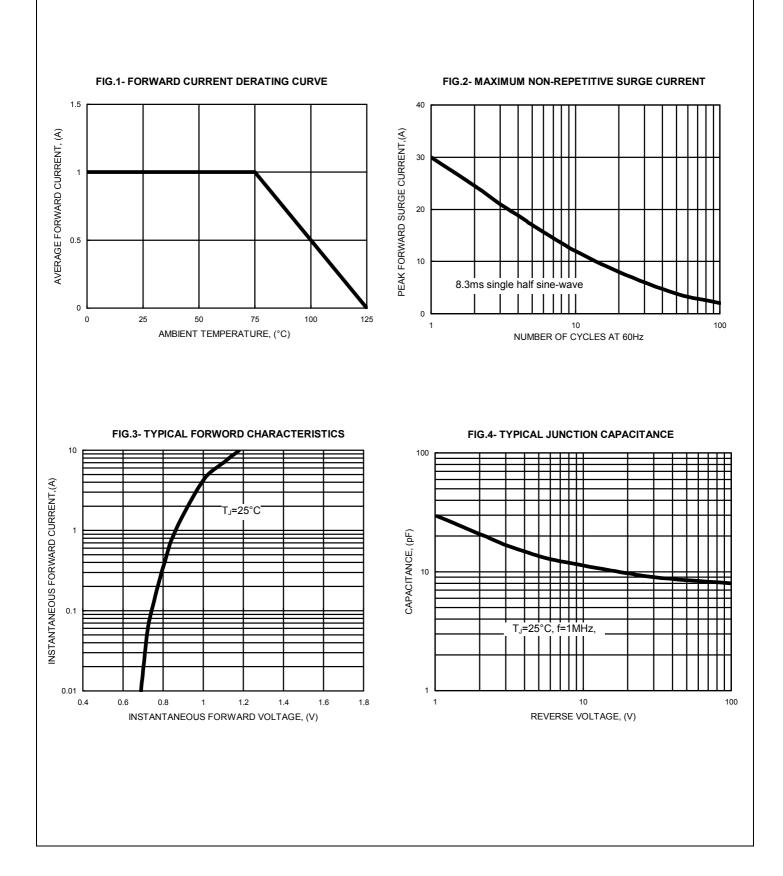
PARAMETER	SYMBOL	TYP.	UNIT
Thermal resistance (Note 2)	RthJ _A	50	
REV. 5, MAY-2015, KI			

Note :

Measured at 1.0MHz and applied reverse voltage of 4.0V DC
Thermal resistance junction to ambient and case,

RATING AND CHARACTERISTIC CURVES 1N4001L thru 1N4007L





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