

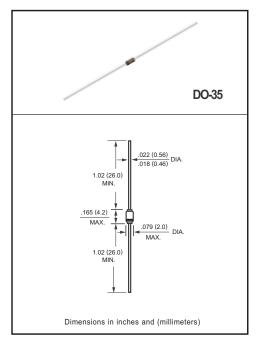
HIGH SPEED SWITCHING DIODE

FEATURES

- * High reliability
- * DO-35 Package (JEDEC)
- * High forward current capability

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.



MAXIMUM RATINGES (@ TA = 25° C unless otherwise noted)

WAXIMOM ICATINGES (@ IA = 23 0 unless otherwise noted)			
RATINGS	SYMBOL	1N4150	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	Volts
Maximum RMS Voltage	V _{RMS}	35	Volts
Maximum DC Blocking Voltage	V _{DC}	50	Volts
Average forward current VR=0	I _{FAV}	300	mAmps
Maximum Average Forward Rectified Current	lo	600	mAmps
Non-Repetitive Peak Forward Surge Current tp=1µs	I _{FSM}	4	Amps
Typical Reverse Recovery Time($I_F=I_R=30mA$, $I_{ff}=0.1X_{IR}$, $R_L=100\Omega$)	T _{rr}	4	nS
Maximum Diode capacitance(V _R =0V,f=1MHz)	C _D	2.5	pF
Maximum Power Dissipation	PD	500	mW
Operating and Storage Temperature Range	T _J ,T _{STG}	-65 to +175	°c

ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted)

ELECTRICAL CHARACTERISTICS (@TA=25	O unless otherwise no	tcu)		
CHARACTERISTICS		SYMBOL	1N4150	UNITS
Maximum Instantaneous Forward Voltage	@I _F =1mA @I _F =10mA @I _F =50mA @I _F =100mA @I _F =200mA	V _F	0.62 0.74 0.86 0.92 1.0	Volts
Maximum Instantaneous Reverse Current	@T _A =25 °C @T _Δ =150 °C	I _R	100 100	nAmps uAmps

2019-06/08 REV: O

RATING AND CHARACTERISTICS CURVES (1N4150)

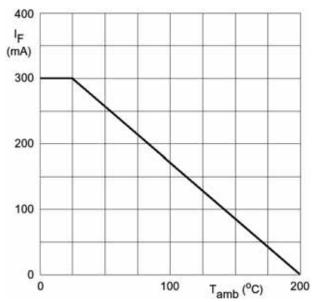


Figure 1. Maximum permissible continuous forward current vs. ambient temperature

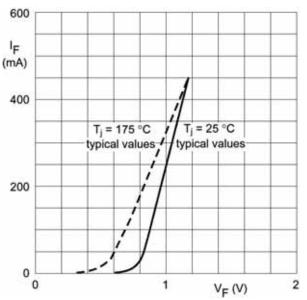


Figure 2. Forward current vs. forward voltage

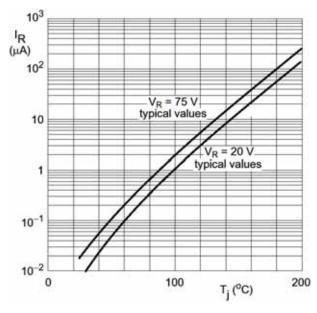


Figure 3. Reverse current vs. junction temperature

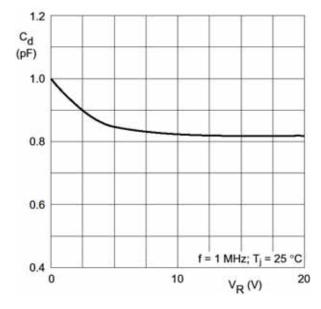


Figure 4. Diode capacitance vs. reverse voltage (Typical values)

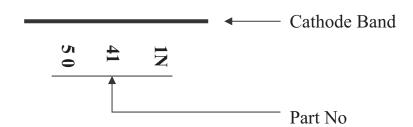




1. Internal Circuit



2. Marking on the body



PACKAGING OF DIODE

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-35	-B	10,000	240*100*100	410*350*275	120,000	21.5

REEL PACK

PAC	KAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO)-35	-T	10,000	5.0	52	356	380*380*420	50,000	11.00

AMMO PACK

PACKAGE	PACKING	REEL	COMPONENT	TAPE SPACE	BOX SIZE	CARTON	CARTON	GROSS
	CODE	(EA)	SPACE(mm)	(mm)	(mm)	SIZE(mm)	(EA)	WEIGHT (Kg)
DO-35	-F	5,000	5.0	52	250*80*80	410*260*340	100,000	20.00

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