

DIGITRON SEMICONDUCTORS

1N3600, 1N4150

SWITCHING RECTIFIER

MAXIMUM RATINGS @ 25°C

Operating junction and storage temperature range	-65° to 175°C
Operating current	300mA @ T _A = 25°C
Derating current	2.0mA dc/°C above T _L = 75°C @ L = 3/8"
Forward surge current	4A (t _p = 1μs); 0.5A (t _p = 1s)

ELECTRICAL CHARACTERISTICS

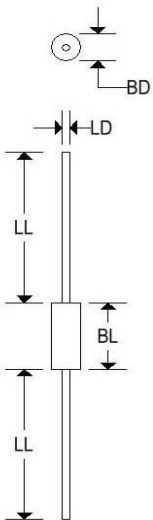
Part number	Breakdown voltage	Working peak reverse voltage	Reverse current	Reverse current	Capacitance	Reverse recovery time
	V _{BR}	V _{RWM}	I _{R1}	I _{R2}	C	t _{rr}
	I _R = 10μA		V _R = 50Vdc	V _R = 50Vdc	V _R = 0, f = 1MHz	I _F = I _R = 10 to 100mA dc
	Vdc	V(pk)	μA dc	μA dc	ac signals = 50mV(p-p)	R _L = 100Ω
1N3600	75	50	0.1	100	2.5	4
1N4150	75	50	0.1	100	2.5	4

FORWARD VOLTAGE LIMITS

Limits	V _{F1}	V _{F2}	V _{F3}	V _{F4}	V _{F5}
	I _F = 1mA dc	I _F = 10mA, dc	I _F = 50mA dc (pulsed)	I _F = 100 mA dc (pulsed)	I _F = 200mA dc (pulsed)
	Vdc	Vdc	Vdc	Vdc	Vdc
Minimum	0.540	0.660	0.760	0.820	0.870
Maximum	0.620	0.740	0.860	0.920	1.000

MECHANICAL CHARACTERISTICS

Case:	DO-35
Marking:	Body painted, alpha-numeric
Polarity:	Cathode band



	DO-35			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.055	0.090	1.400	2.290
BL	0.120	0.200	3.050	5.080
LD	0.018	0.022	0.460	0.560
LL	1.000	1.500	25.400	38.100

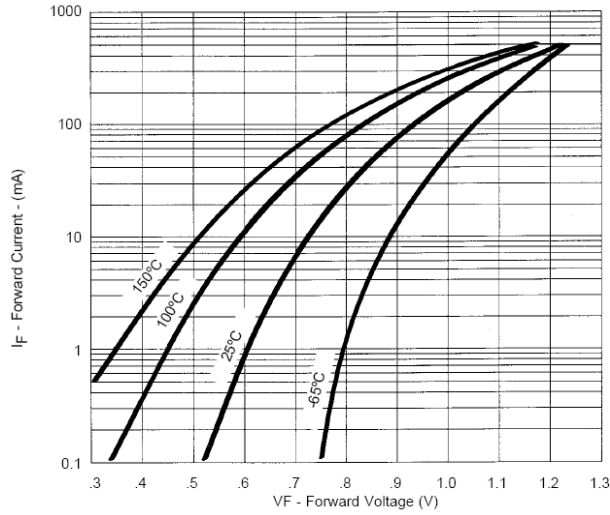
Available Non-RoHS (standard) or RoHS compliant (add PBF suffix).

Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.

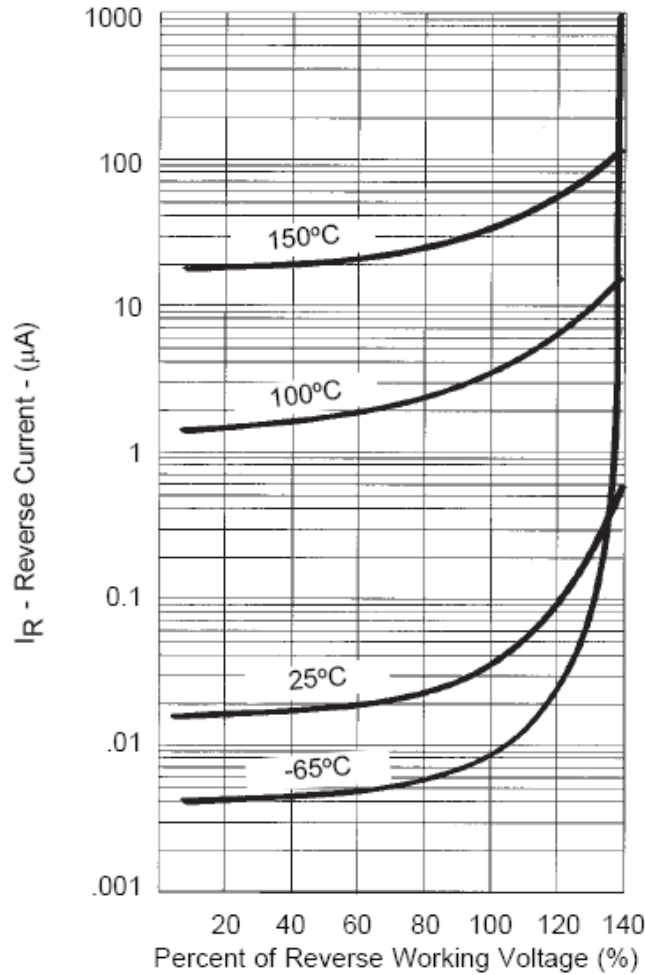
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TYPICAL FORWARD CURRENT VS. FORWARD VOLTAGE



TYPICAL REVERSE CURRENT VS. REVERSE CURRENT