

DIGITRON SEMICONDUCTORS

1N5624-1N5627

GLASS PASSIVATED RECTIFIER

MAXIMUM RATINGS and ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

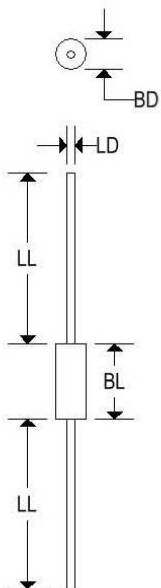
Characteristics	Symbol	1N5624	1N5625	1N5626	1N5627	Unit
Maximum peak repetitive reverse voltage	V _{RRM}	200	400	600	800	V
Maximum RMS voltage	V _{RMS}	140	280	420	560	V
Maximum DC blocking voltage	V _{DC}	200	400	600	800	V
Maximum average forward rectified current 0.375" lead length @ T _A = 70°C	I _{AV}	3.0				A
Peak forward surge current 8.3ms single half sine wave superimposed on rated load	I _{FSM}	125				A
Maximum instantaneous forward voltage @ 3.0A T _A = 25°C T _A = 70°C	V _F	1.0 0.95				V
Maximum DC reverse current at rated DC blocking voltage T _A = 25°C T _A = 175°C	I _R	5.0				μA
		300		200		
Maximum full load reverse current Full cycle average, 0.375" lead length @ T _A = 70°C	I _{R(AV)}	150		100		μA
Typical junction capacitance ⁽¹⁾	C _J	40				pF
Typical thermal resistance ⁽²⁾	R _{θJA} R _{θJL}	20 10				°C/W
Operating junction temperature range	T _J	-65 to +175				°C
Storage temperature range	T _{STG}	-65 to +200				°C

Note 1: Measured at 1.0 MHz and applied reverse voltage of 4.0 V.

Note 2: Thermal resistance from junction to ambient and from junction to lead at 0.375" lead length, with both leads attached between heatsinks.

MECHANICAL CHARACTERISTICS

Case	Digi K
Marking	Body painted, alpha-numeric
Polarity	Cathode band

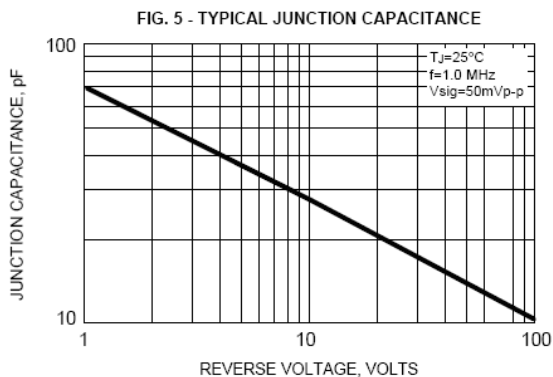
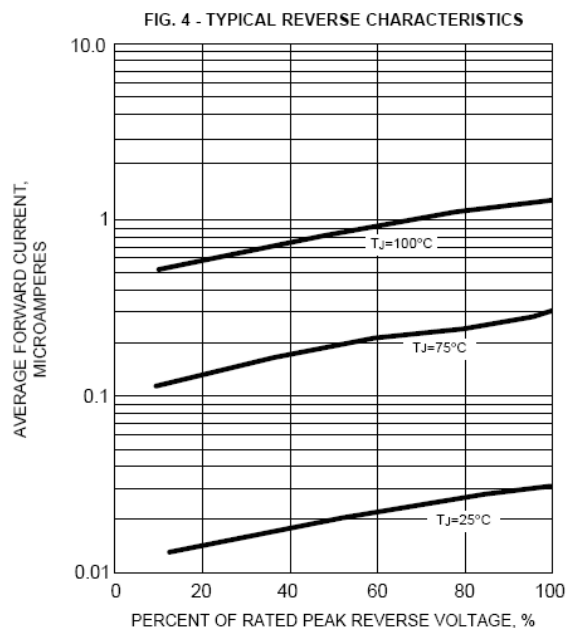
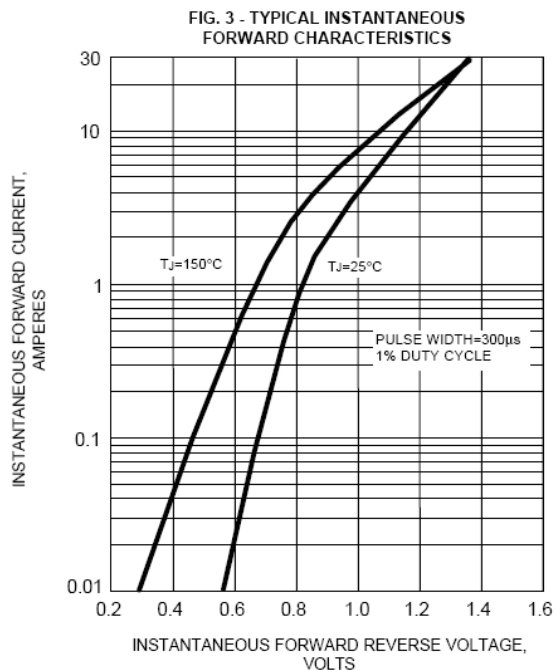
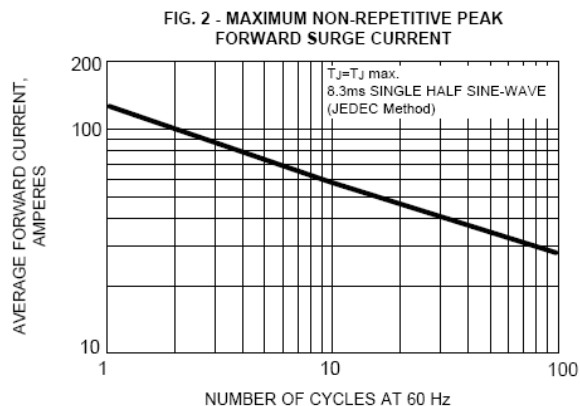
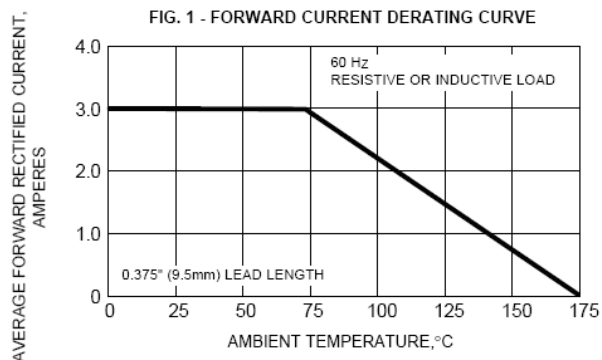


	Digi K			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.170	0.250	4.318	6.350
BL	-	0.300	-	7.620
LD	0.048	0.052	1.219	1.321
LL	1.000	-	25.400	-

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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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