

DIGITRON SEMICONDUCTORS

1N5624-1N5627

GLASS PASSIVATED RECTIFIER

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

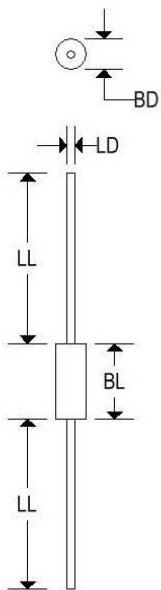
Characteristics	Symbol	1N5624	1N5625	1N5626	1N5627	Unit
Maximum peak repetitive reverse voltage	V_{RRM}	200	400	600	800	V
Maximum RMS voltage	V_{RMS}	140	280	420	560	V
Maximum DC blocking voltage	V_{DC}	200	400	600	800	V
Maximum average forward rectified current 0.375" lead length @ $T_A = 70^\circ\text{C}$	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 $T_A = 25^\circ\text{C}$ $T_A = 70^\circ\text{C}$	V_F	1.0 0.95				V
Maximum DC reverse current at rated DC blocking voltage $T_A = 25^\circ\text{C}$ $T_A = 175^\circ\text{C}$	I_R	5.0				μA
Maximum full load reverse current Full cycle average, 0.375" lead length @ $T_A = 70^\circ\text{C}$	$I_{R(AV)}$	150		100		μA
Typical junction capacitance ⁽¹⁾	C_J	40				pF
Typical thermal resistance ⁽²⁾	$R_{\theta JA}$ $R_{\theta JL}$	20 10				$^\circ\text{C/W}$
Operating junction temperature range	T_J	-65 to +175				$^\circ\text{C}$
Storage temperature range	T_{STG}	-65 to +200				$^\circ\text{C}$

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

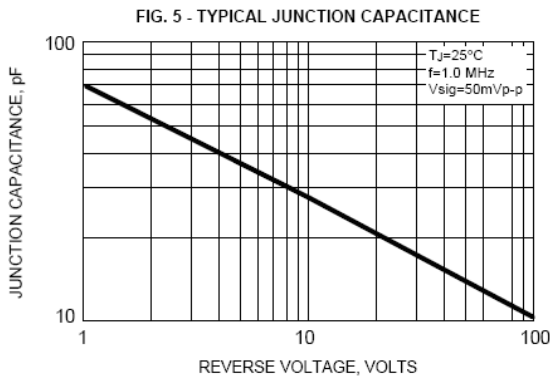
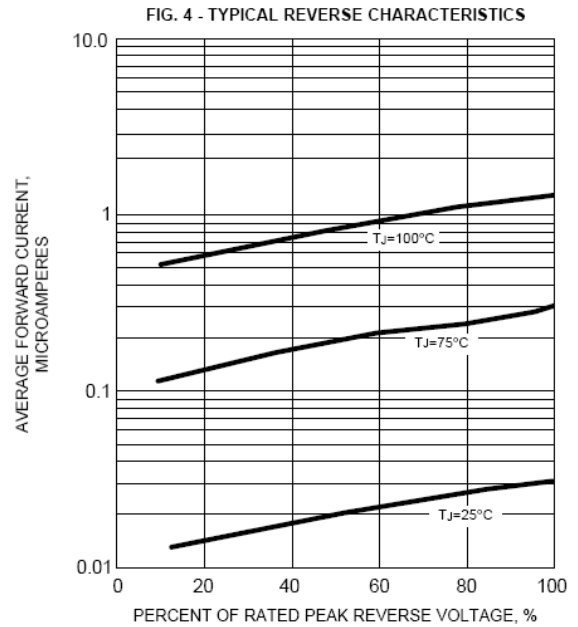
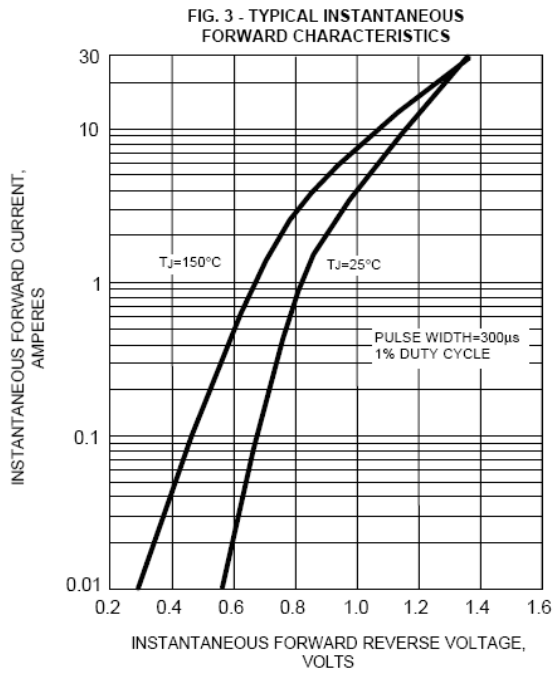
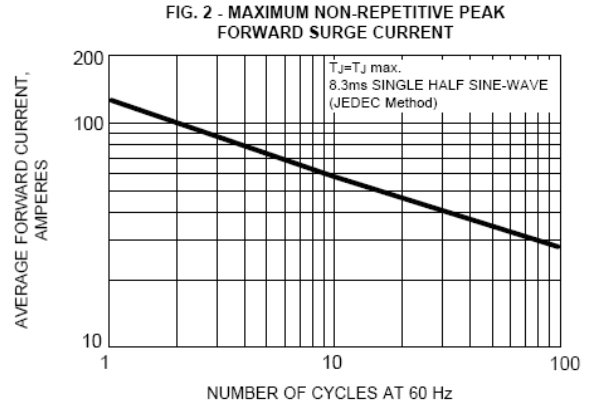
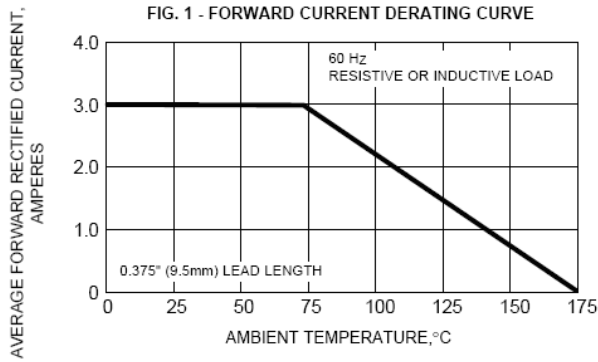


	Digi K			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.170	0.250	4.318	6.350
BL	-	0.300	-	7.620
LD	0.048	0.052	1.219	1.321
LL	1.000	-	25.400	-

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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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