

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

Rating	Value	Unit
Operating and storage temperature range	-65 to +175	°C
Operating current	300	mA
Derating above $T_1 = 75^\circ\text{C}$, $L = 3/8''$	3	mA/°C
Surge current (8.3ms)	2.5	A

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Part number	Minimum reverse breakdown voltage	Working peak reverse voltage	Maximum reverse current	Maximum reverse current	Maximum forward recovery time	Maximum reverse recovery time	Capacitance
	@10 μA		@ $T_A = 25^\circ\text{C}$	@ $T_A = 150^\circ\text{C}$			
	V_{BRR}		$V_R = V_{RWM}$	$V_R = V_{RWM}$			
	V(pk)		I_{R1}	I_{R2}			
					$I_F = 200\text{mA}$		$V_R = 0$
		V_{RWM}	I_{R1}	I_{R2}	T_{FR}	T_{RR}	C_T
		V(pk)	nA	μA	ns	ns	pF
1N6339	100	75	100	100	10	4.0	2.5
1N6340	75	50	100	100	10	4.0	2.5
1N6341	75	50	100	100	10	5.0	3.0

FORWARD VOLTAGE

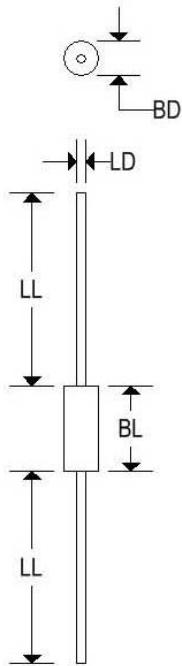
Part number	Forward voltage		
	$V_F @ I_F$		
	Volts		mA (pulsed)
	Min	Max	
1N6639	-	1.20	500
1N6640	0.54	0.62	1
	0.76	0.86	50
	0.82	0.92	100
	0.87	1.00	200
1N6641	-	1.10	200

1N6639-1N6641

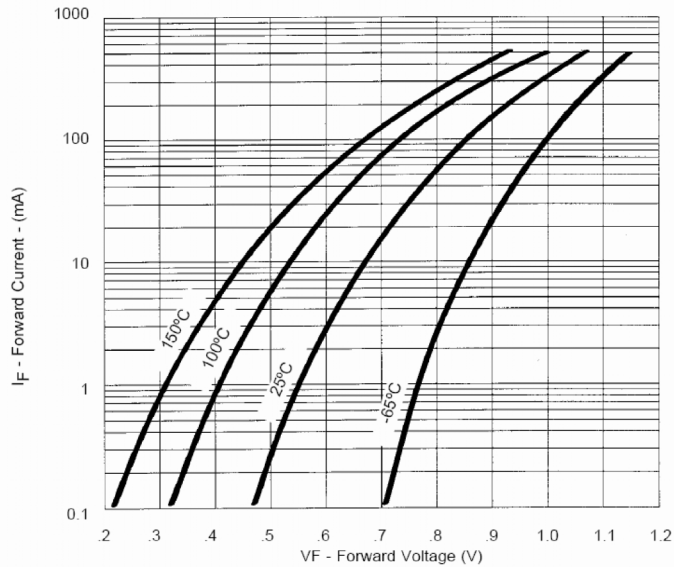
SWITCHING RECTIFIERS

MECHANICAL CHARACTERISTICS

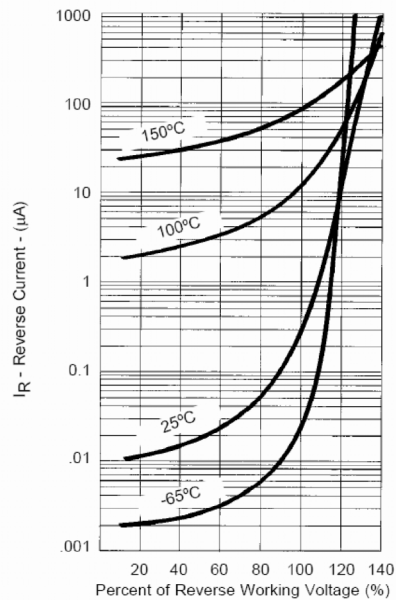
Case	DO-35
Marking	Body painted, alpha-numeric
Polarity	Cathode band



	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



Typical Forward Current
vs Forward Voltage



Typical Reverse Current
vs Reverse Voltage

NOTE : All temperatures shown on graphs are junction temperatures