

**ELECTRICAL CHARACTERISTICS** $T_j = 25\text{ }^{\circ}\text{C}$  unless otherwise specified.

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
$V_F$	forward voltage	see Fig.3			
	1N4148	$I_F = 10\text{ mA}$	–	1	V
	1N4448	$I_F = 5\text{ mA}$	0.62	0.72	V
		$I_F = 100\text{ mA}$	–	1	V
$I_R$	reverse current	$V_R = 20\text{ V}$ ; see Fig.5		25	nA
		$V_R = 20\text{ V}$ ; $T_j = 150\text{ }^{\circ}\text{C}$ ; see Fig.5	–	50	$\mu\text{A}$
$I_R$	reverse current; 1N4448	$V_R = 20\text{ V}$ ; $T_j = 100\text{ }^{\circ}\text{C}$ ; see Fig.5	–	3	$\mu\text{A}$
$C_d$	diode capacitance	$f = 1\text{ MHz}$ ; $V_R = 0\text{ V}$ ; see Fig.6	–	4	pF
$t_{rr}$	reverse recovery time	when switched from $I_F = 10\text{ mA}$ to $I_R = 60\text{ mA}$ ; $R_L = 100\text{ }\Omega$ ; measured at $I_R = 1\text{ mA}$ ; see Fig.7	–	4	ns
$V_{fr}$	forward recovery voltage	when switched from $I_F = 50\text{ mA}$ ; $t_r = 20\text{ ns}$ ; see Fig.8	–	2.5	V