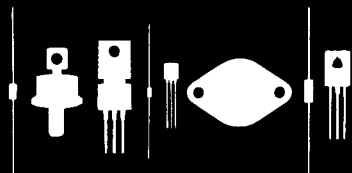


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145 Adams Avenue
Hauppauge, New York 11788



1N645 THRU 1N649
1N645A

SILICON GENERAL PURPOSE DIODES

JEDEC DO-7 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N645 series types are Silicon Diodes designed for general purpose medium current applications.

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

	SYMBOL	1N645	1N645A	1N646	1N647	1N648	1N649	UNIT
Peak Working Reverse Voltage	V_{RWM}	225	225	300	400	500	600	V
Average Forward Current	I_O			400				mA
Average Forward Current ($T_A=150^{\circ}\text{C}$)	I_O			150				mA
Peak Forward Surge Current	I_{FSM}			3.0				A
Power Dissipation	P_D			600				mW
Operating and Storage Junction Temperature	T_J, T_{stg}			-65 TO +175				$^{\circ}\text{C}$

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

SYMBOL	TEST CONDITIONS	1N645		1N645A		1N646		1N647		1N648		1N649		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
I_R	$V_R=V_{RWM}$		0.2		0.2		0.2		0.2		0.2		0.2	μA
I_R	$V_R=V_{RWM}, T_A=100^{\circ}\text{C}$		15		15		15		20		20		25	μA
I_R	$V_R=60\text{V}$		-		0.05		-		-		-		-	μA
I_R	$V_R=60\text{V}, T_A=125^{\circ}\text{C}$		-		10		-		-		-		-	μA
V_F	$I_F=400\text{mA}$		1.0		1.0		1.0		1.0		1.0		1.0	V
C_T	$V_R=12\text{V}, f=1.0\text{MHz}$	5.0 TYP		5.0 TYP		5.0 TYP		5.0 TYP		5.0 TYP		5.0 TYP		pF

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