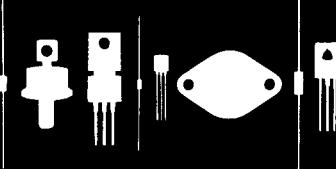


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 145 Adams Avenue
 Hauppauge, New York 11788



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_0			400				mA
Average Forward Current ($T_A=150^\circ\text{C}$)	I_0			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											
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		PF										

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