



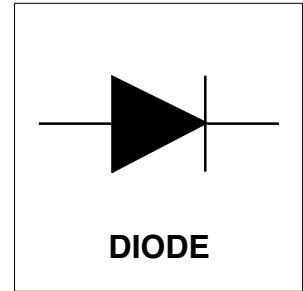
**Interface Technologies, div of Waterloo Engr Grp LLC**

111 N 10th Ave, Melrose Park, IL 60160  
Phone: (708) 366-4411 FAX: (708)366-4413

---

**tsms5g**

**Revision Date: February 20, 2020**



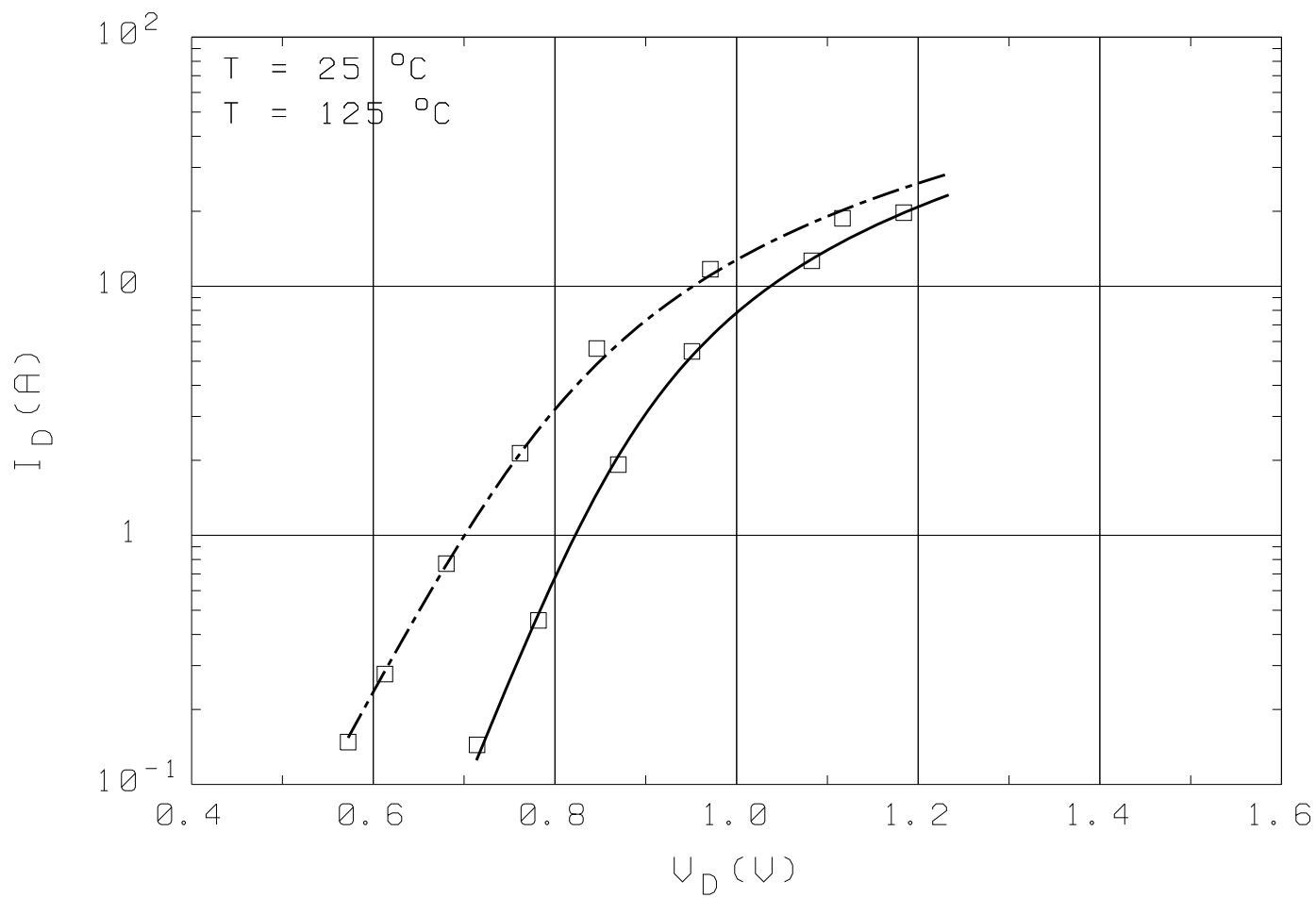
© SYMMETRY Design Systems, Inc.

---

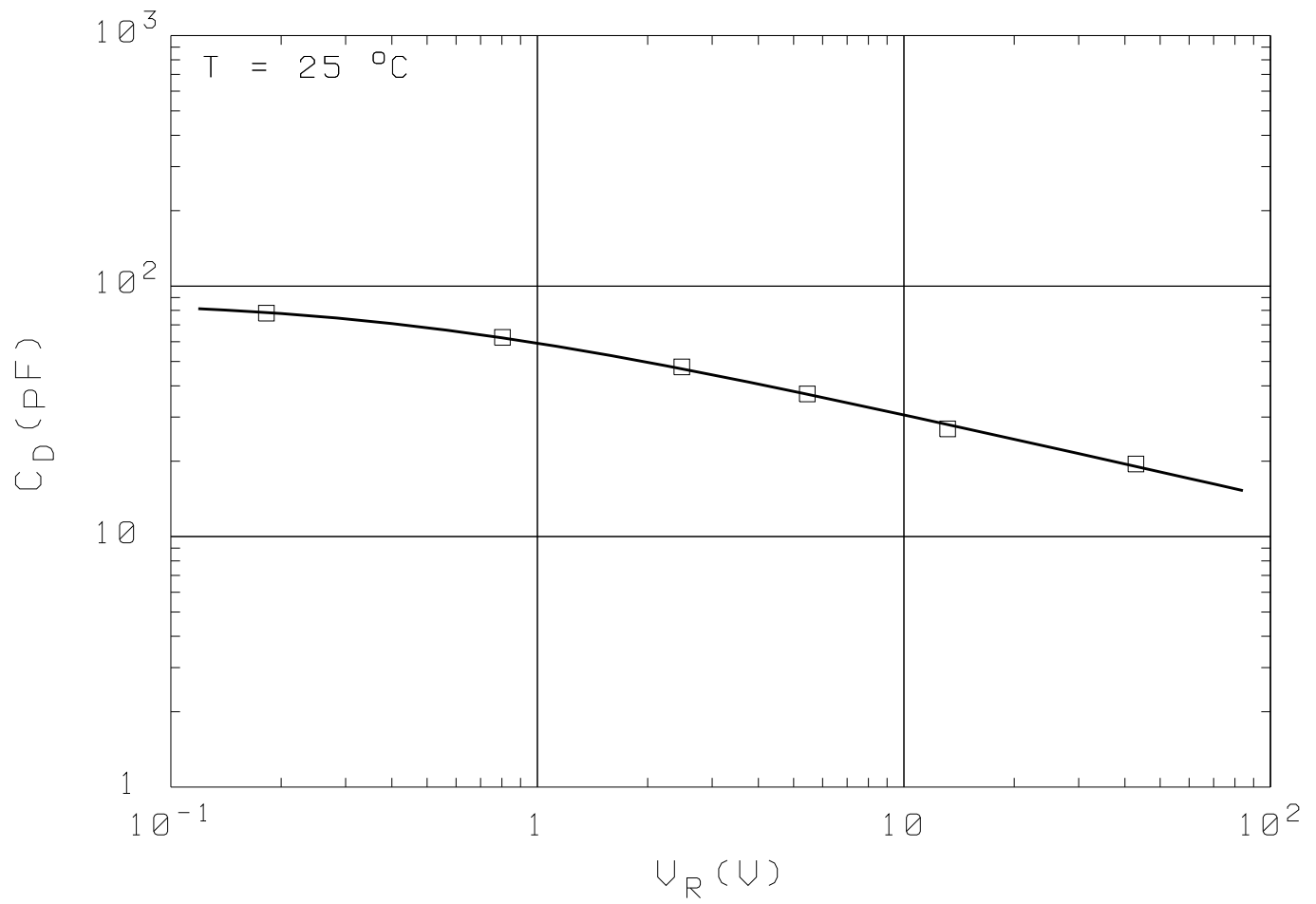
**Electrical Characteristics** (Ta = 25°C unless otherwise noted)

Testing Simulator: *MODPEX*

<b>Spec.</b>	<b>Test Conditions</b>	<b>Min</b>	<b>Typ</b>	<b>Max</b>	<b>Model</b>	<b>Unit</b>
VD	ID = 5A			1.1	0.9457	V
CD	VR = 4V		40		40.67	pF



Current - Voltage Variations



Capacitance

## tsms5g: DIODE Parameters

---

Symbol	Parameter Name	Value	Unit
IS	Saturation current	$4.27 \times 10^{-8}$	A
RS	Ohmic resistance	0.01179	$\Omega$
N	Emission coefficient	1.841	
EG	Activation energy	1.085	eV
XTI	Saturation current temperature exponent	2.999	
BV	Reverse breakdown voltage	500	V
IBV	Current at reverse breakdown voltage	$1 \times 10^{-5}$	A
CJO	Junction depletion capacitance	$8.86 \times 10^{-11}$	F
VJ	Junction built-in potential	0.4244	V
M	Grading coefficient	0.3319	
FC	Forward-bias junction fit parameter	0.5	
TT	Transit time	$1 \times 10^{-9}$	Sec
KF	Flicker-noise coefficient	0	
AF	Flicker-noise exponent	1	