1N6263

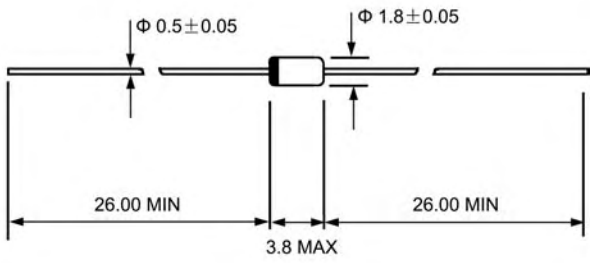
Small Signal Schottky Diodes

Reverse Voltage： 60Volts
Forward Current:0.015Amps

Features

- ◇ For general purpose applications
- ◇ Metal silicon schottky barrier device which is protected by a PN junction guard ring. The low forward voltage drop and fast switching make it ideal for protection of MOS devices,steering,biasing and coupling diodes for fast switching and low logic level applications

DO - 35(GLASS)



Dimensions in millimeters

Mechanical Data

- ◇ Case:JEDEC DO--35,glass case
- ◇ Polarity: Color band denotes cathode end
- ◇ Weight: Approx. 0.13 gram

ABSOLUTE RATINGS(LIMITING VALUES)

	Symbols	Value	UNITS
Peak reverse voltage	V_{RRM}	60.0	V
Power dissipation (Infinite Heat Sink)	P_{tot}	400[1)]	mW
Maximum single cycle surge 10μs square wave	I_{FSM}	2.0	A
Junction tenperature	T_J	125	℃
Storage temperature range	T_{STG}	-55 ---+ 150	℃
1)Valid provided that electrodes are kept at ambient temperature.			

ELECTRICAL CHARACTERISTICS

(Ratings at 25℃ ambient temperature unless otherwise specified)

	Symbols	Min.	Typ.	Max.	UNITS
Reverse breakdown voltage @ I_R=10μA	V_R	60.0			V
Leakage current @ V_R=50V	I_R			200.0	nA
Forward voltage drop @ I_F=1mA	V_F			0.41	V
I_F=15mA	V_F			1.0	V
Junction capacitance @ V_R=0V,f=1MHz	C_J			2.2	pF
Reverse recovery time @ I_F=I_R=5mA,recover to 0.1 I_R	t_{rr}			1	ns
Termal resistance junction to ambient air	$R_{\theta JA}$			0.3	℃/mW

Ratings AND Charactieristic Curves

FIG.1 -- TYPICAL VARIATION OF FWD. CURRENT VS FWD. VOLTAGE FOR PRIMARY CONDUCTION THROUGH THE SCHOTTKY BARRIER

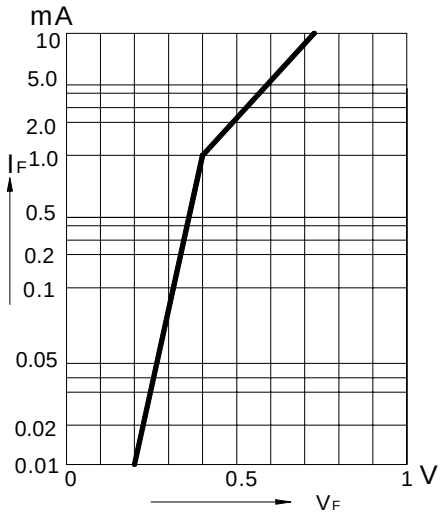


FIG.2 -- TYPICAL FORWARD CONDUCTION CURVE OF COMBINATION SCHOTTKY BARRIER AND PN JUNCTION GUARD RING

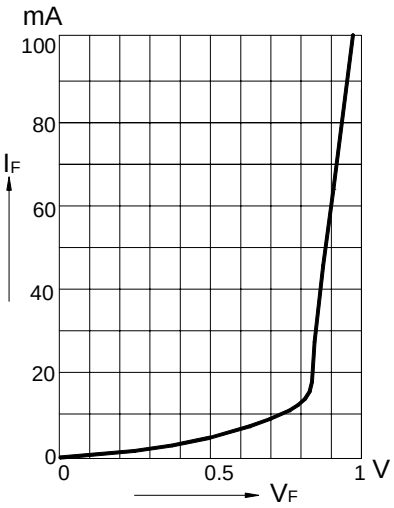


FIG.3 -- TYPICAL VARIATION OF REVERSE CURRENT AT VARIATION TEMPERATURES

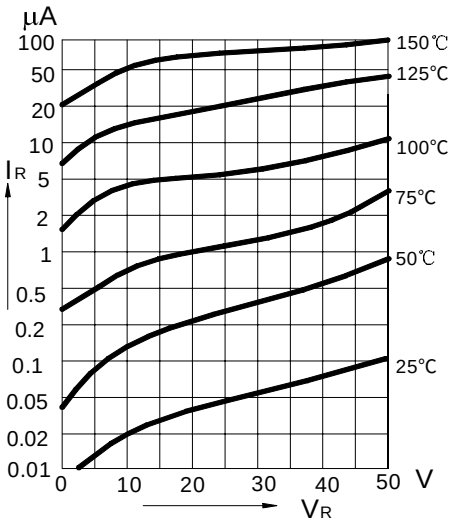
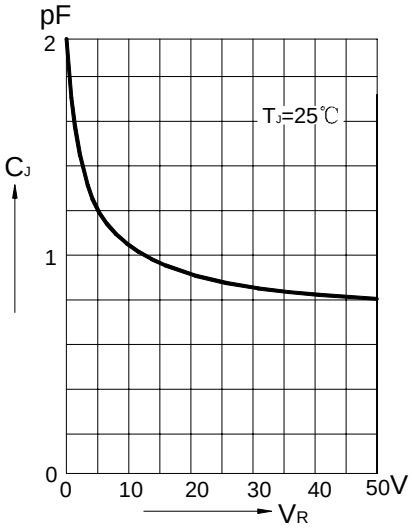


FIG.4 -- TYPICAL CAPACITANCE CURVE AS A JUNCTION OF REVERSE VOLTAGE



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
DO-35	5000/AMMO	100000	41X28.5X38	14.57	13.07