



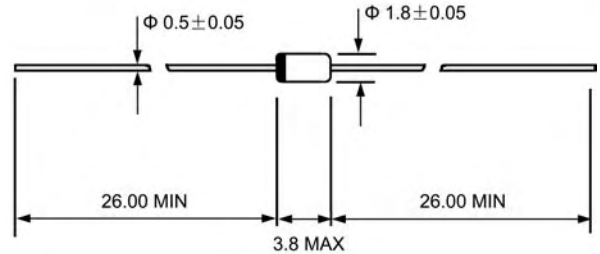
Reverse Voltage: 40Volts
Forward Current:0.015Amps

DO - 35(GLASS)



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



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}	70.0	V
Power dissipation (Infinite Heat Sink)	P_{tot}	400 ¹⁾	mW
Maximum single cycle surge 10 μ s square wave	I_{FSM}	2.0	A
Junction temperature	T_J	125	$^{\circ}C$
Storage temperature range	T_{STG}	-55 ----+ 150	$^{\circ}C$

1)Valid provided that leads at a distance of 4mm from case are kept at ambient temperature

ELECTRICAL CHARACTERISTICS

(Ratings at 25 $^{\circ}C$ ambient temperature unless otherwise specified)

	Symbols	Min.	Typ.	Max.	UNITS
Reverse breakdown voltage @ $I_R=10 \mu A$	V_R	70.0			V
Leakage current @ $V_R=50V$	I_R			200.0	nA
Forward voltage drop @ $I_F=1mA$ $I_F=15mA$	V_F			0.41 1.0	V
Junction capacitance @ $V_R=0V, f=1MHz$	C_J			2	pF
Reverse recovery time @ $I_F=I_R=5mA$, recover to 0.1 I_R	t_{rr}			1	ns
Thermal resistance junction to ambient air	$R_{\theta JA}$			0.3	$^{\circ}C/mW$

Ratings AND Characteristic Curves

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

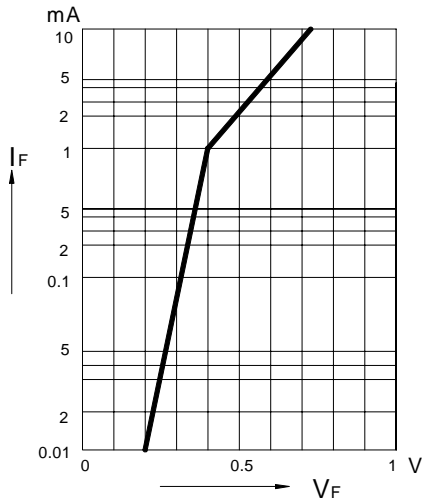


FIG.2 – TYPICAL FORWARD CONDUCTION CURVE OF COMBINATION SCHOTTKY BARRIER AND PN JUNCTION GUARD RING

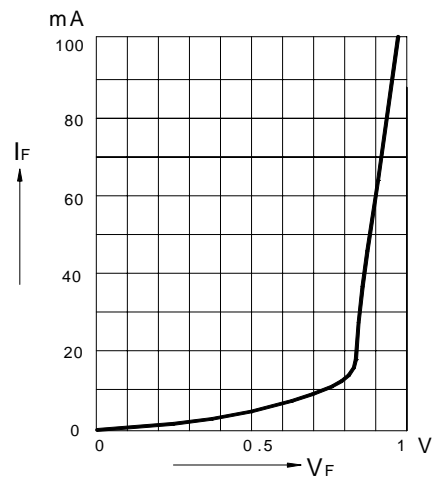


FIG.3 – TYPICAL VARIATION OF REVERSE CURRENT AT VARIATION TEMPERATURES

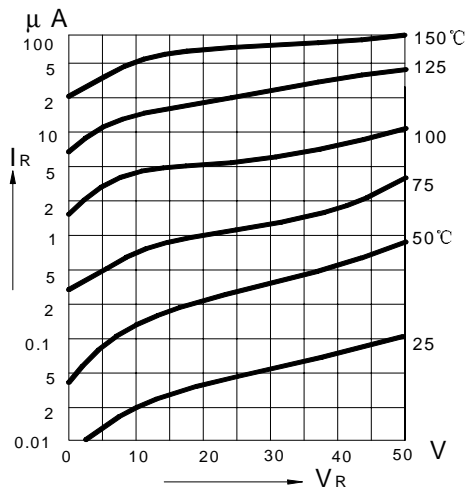
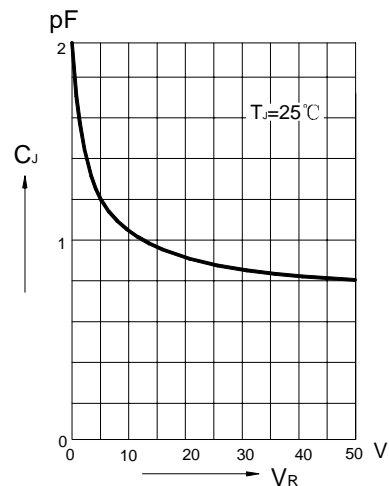


FIG.4 – TYPICAL CAPACITANCE CURVE AS A JUNCTION OF REVERSE VOLTAGE



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