



Sckottky Barrier Diodes

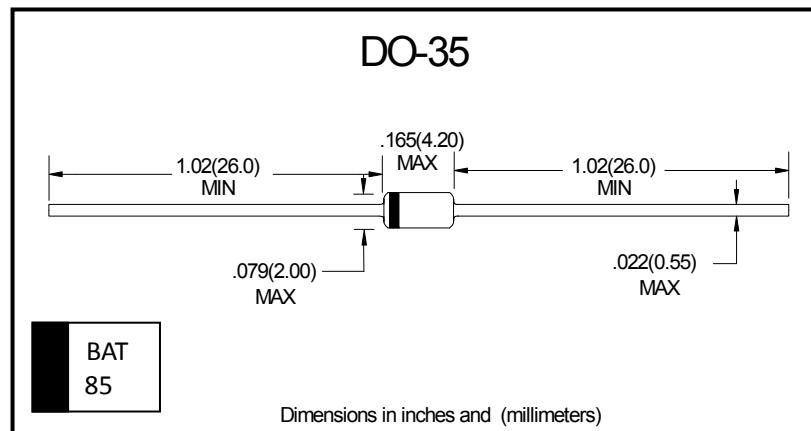
■ Features

- V_R 30V
- I_{FM} 300mA

■ Applications

- Applications where a very low forward voltage is required

■ Outline Dimensions and Mark



■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	Max
Continuous reverse voltage	V_R	V		30
Forward continuous current	I_F	mA	Ta=25°C	200
Peak forward current	I_{FM}	mA	Ta=25°C	300
Surge forward current	I_{FSM}	mA	$t_p \leq 1s$, Ta=25°C	600
Power dissipation	P_{tot}	mW	Ta=65°C	200
Maximum junction temperature	T_j	°C		125
Ambient operating temperature range	T_A			-65 to +125
Storage temperature range	T_{stg}	°C		-65 to +150
Junction ambient	R_{thJA}	°C/W	On PC board 50mm×50mm×1.6mm	250

■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Max
Reverse breakdown voltage	$V_{(BR)R}$	V	$I_R=10\mu A$ (pulsed)	30	
Leakage current	I_R	uA	$V_R=25V$		2
Forward voltage pulse test $t_p < 300\mu s, s < 2\%$	VF	V	$I_F=0.1mA$		0.24
		V	$I_F=1mA$		0.32
		V	$I_F=10mA$		0.4
		V	$I_F=30mA$		0.5
		V	$I_F=100mA$		0.8
Capacitance	C_{tot}	pF	$V_R=1V, f=1MHz$		10
Reverse recovery time	t_{rr}	ns	$I_F = I_R = 10mA, I_R = 0.1mA$		5



■ Characteristics(Typical)

Fig1. Admissible power dissipation vs.ambient temperature

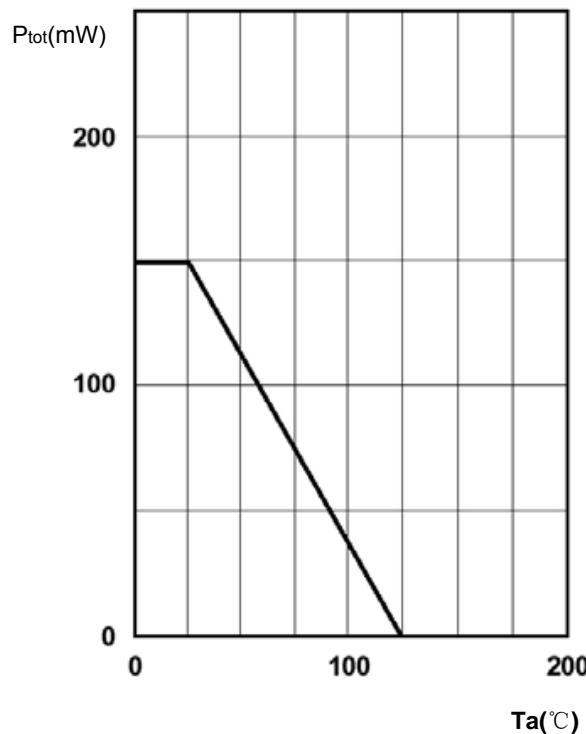


Fig2. Typical instantaneous forward characteristics

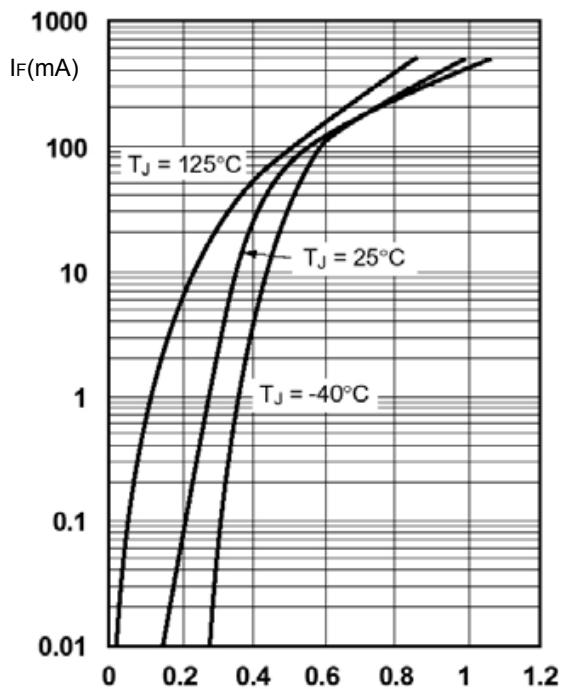


Fig3. Typical reverse characteristics

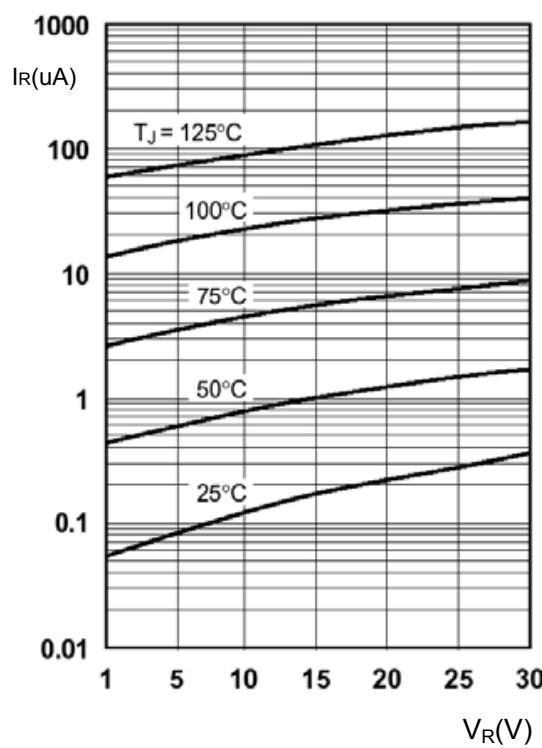


Fig4. Typical junction capacitance

