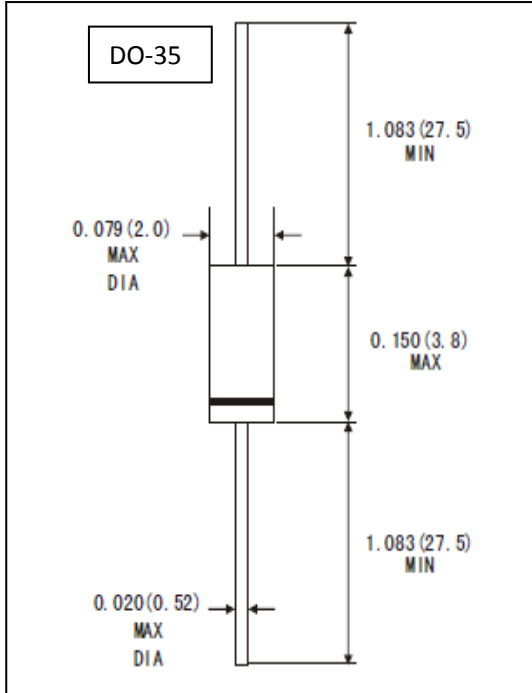


Small Signal Schottky Diodes



Features

- V_R 15V
- I_{FAV} 30mA

■ Limiting Values (Absolute Maximum Rating)

Item	Symbols	Value	Units
Peak Reverse Voltage	VRRM	15	V
Forward Continuous Current	IF	30	mA
Surge non repetitive forward current $t_p \leq 1s$	IFSM	60	mA
Junction and Storage temperature range	TSTG TJ	-65 to +150 -65 to +125	°C °C
Maximum Lead Temperature for Soldering during 10s at 4mm from case	TL	230	°C

■ Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbols	Min.	Tye.	Max.	Units
Reverse breakover voltage at $I_R=10\mu\text{A}$	VR	15			V
Leakage current at $V_R=6V$	IR			100	nA
Forward voltage drop Test pulse: $t_p \leq 300\mu\text{s}$ & $< 2\%$	VF			0.38 0.50 1	V
Junction Capacitance at $V_R=1V, f=1\text{MHZ}$	CJ			1.1	Pf
Thermal resitance	$R_{\theta JA}$			400	K/W



BAT45

Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT45	D1	Approximate 1.58	5000	5000	50000	TB

Characteristics(Typical)

Figure 1. Forward current versus forward voltage at different temperatures(typical values)

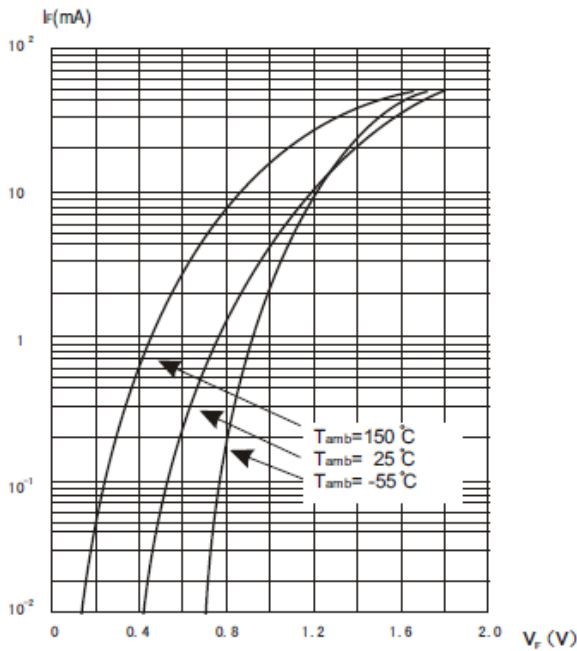


Figure 2 Capacitance CJ versus reverse applied voltage VR (typical values)

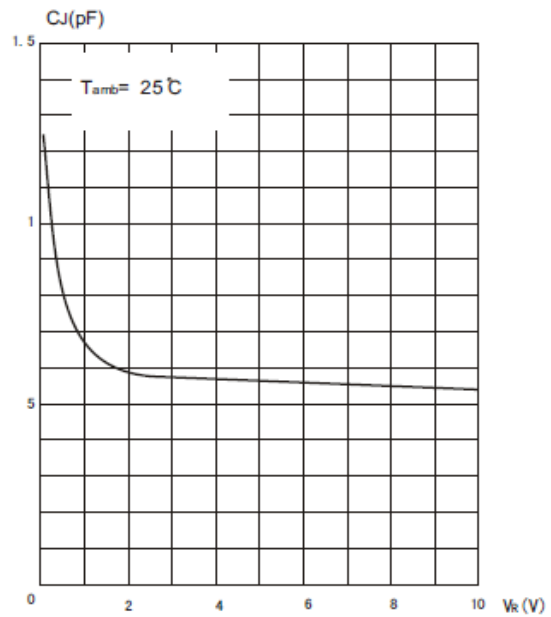


Figure 3.Reverse current versus ambient temperature

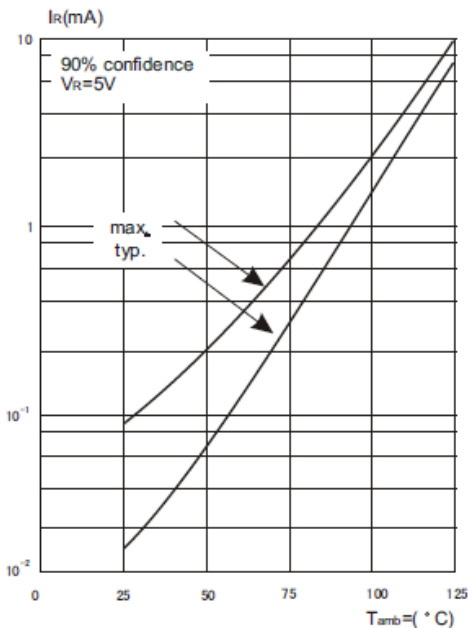
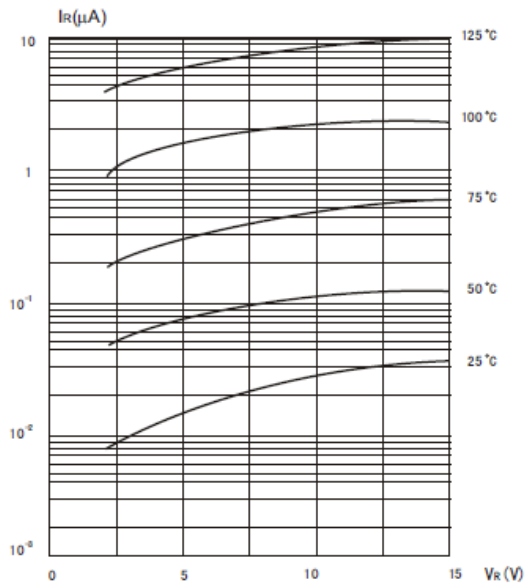


Figure 4.Reverse current versus continuous revers voltage (typical values)





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