

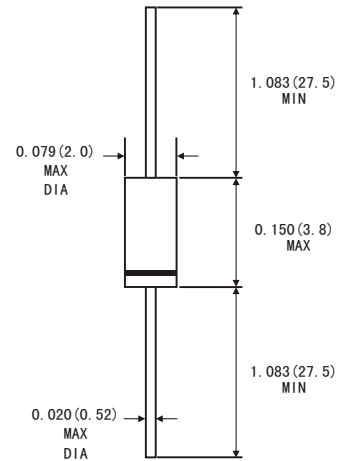
FEATURES

- Metal-on-silicon junction
- Low turn-on voltage
- Ultrafast switching speed
- Primarily intended for high level UHF mixers and ultrafast switching applications
- The diode is also available in the MiniMELF case with type designation LL45.
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- Case: DO-35 glass case
- Polarity: color band denotes cathode end
- Weight: Approx. 0.13 gram

DO-35



Dimensions in inches and (millimeters)

ABSOLUTE RATINGS(LIMITING VALUES)

	Symbols	Value	Units
Peak Reverse Voltage	V _{RRM}	15	V
Forward Continuous Current	I _F	30	mA
Surge non repetitive forward current $t_p \leq 1s$	I _{FSM}	60	mA
Junction and Storage temperature range	T _{STG}	-65 to+150	°C
	T _J	-65 to+125	°C
Maximum Lead Temperature for Soldering during 10s at 4mm from Case	T _L	230	°C

ELECTRICAL CHARACTERISTICS

	Symbols	Min.	Typ.	Max.	Unis
Reverse breakover voltage at I _R =10μA	V _R	15			V
Leakage current at V _R =6V	I _R			100	nA
Forward voltage drop at I _F =1mA Test pulse: $t_p \leq 300\mu s$ $\delta < 2\%$ I _F =10mA I _F =30mA	V _F			0.38 0.50 1	V
Junction Capacitance at V _R =1V, f=1MHz	C _J			1.1	pF
Thermal resistance	R _{θJA}			400	K/W

RATINGS AND CHARACTERISTIC CURVES BAT45

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

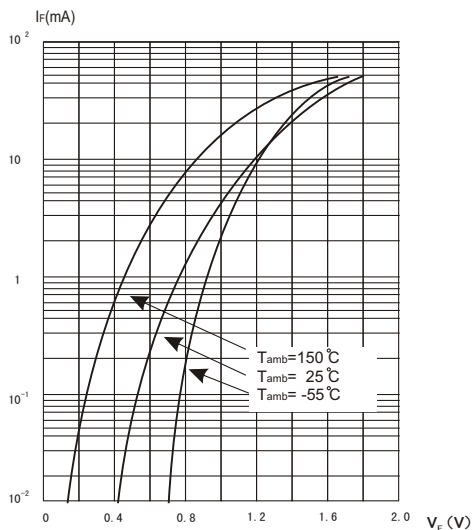


Figure 2 Capacitance C_J versus reverse applied voltage V_R (typical values)

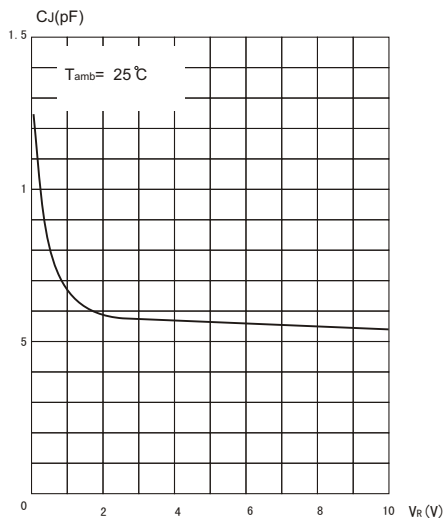


Figure 3. Reverse current versus ambient temperature

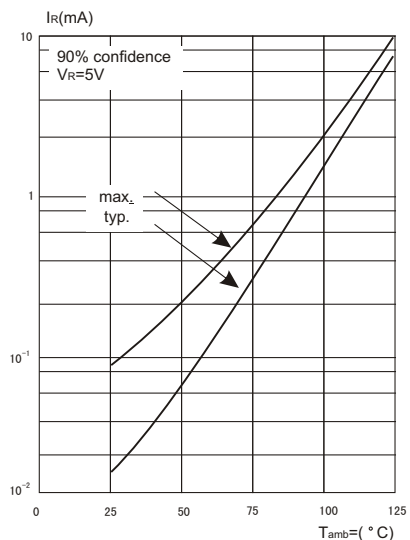


Figure 4. Reverse current versus continuous reverse voltage (typical values)

