



High-speed switching diode

Features

- 1. Small surface mounting type, fits onto SOD 323/SOT 23 footprints
- 2. High Speed
- 3. High reliability with high surge current handing capability



Applications

High speed switching

Absolute Maximum Ratings

T_a=25 °C

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V _{RM}	90	V
DC reverse voltage	V _R	80	V
Peak forward current	I _{FM}	225	mA
Mean rectifying current	I _o	100	mA
Surge current (1s)	I _{surge}	500	mA
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-55~+125	°C

Stresses exceeding maximum ratings may damage the device. Maximum ratings are stress ratings only. Functional operation above the recommended operating conditions is not implied. Extended exposure to stresses above the recommended operating conditions may affect device reliability.

Electrical Characteristics

T_a=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _F	-	0.94	1.2	V	I _F =100mA
Reverse current	I _R	-	0.03	0.1	μA	V _R =80V
Capacitance between terminals	C _T	-	0.72	3.0	pF	V _R =0.5V,f=1MHz
Reverse recovery time	t _{rr}	-	1.2	4.0	ns	V _R =6V,I _F =10mA,R _L =100Ω



Characteristics (Ta=25

°C unless specified otherwise)

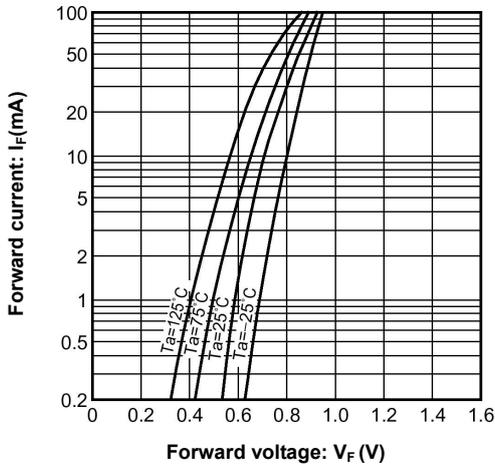


Figure 1. Forward characteristics

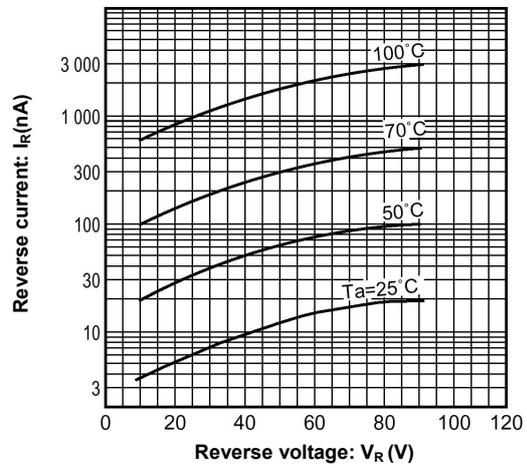


Figure 2. Reverse characteristics

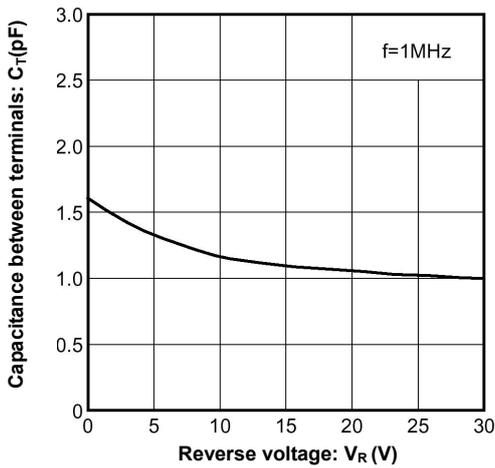


Figure 3. Capacitance between terminals characteristics

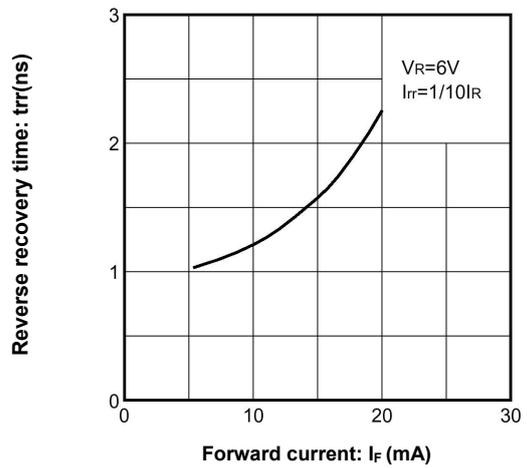


Figure 4. Reverse recovery time characteristics

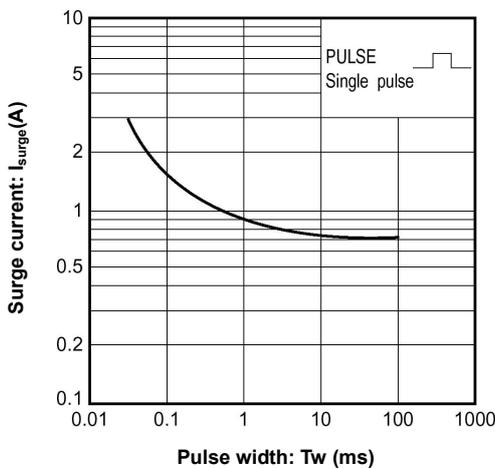


Figure 5. Surge current characteristics

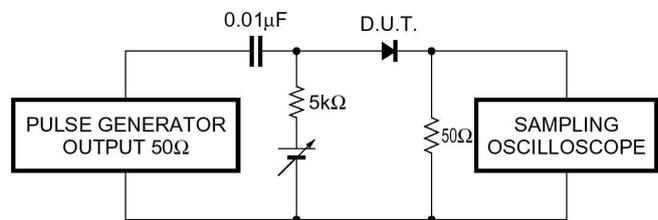
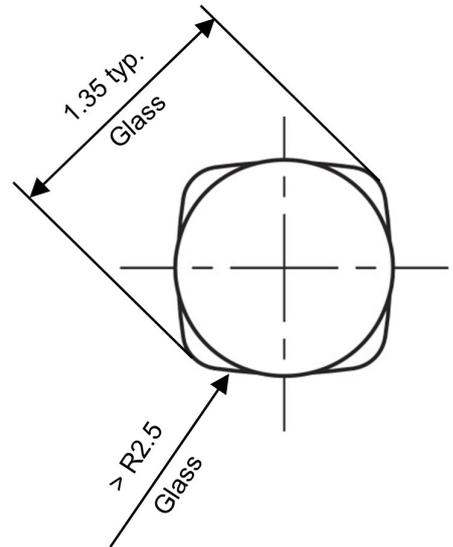
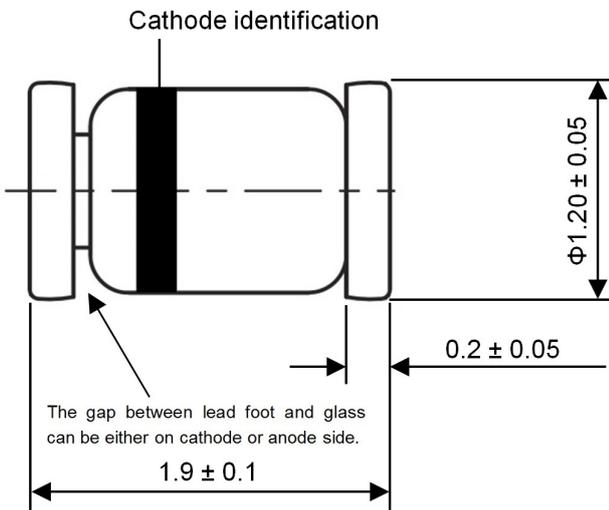


Figure 6. Reverse recovery time (trr) measurement circuit



Dimensions in mm



Glass Case
Micro Melf