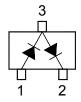
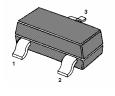


## **HIGH-SPEED DOUBLE DIODE**

fast switching in thick and thin-film circuits diode





SOT-23 Plastic Package

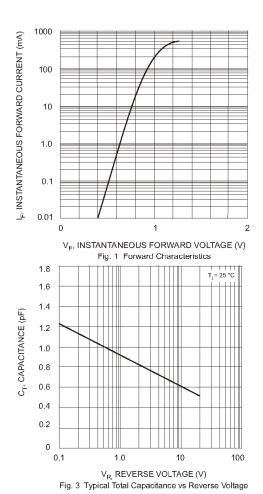
## Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	85	V
Continuous Reverse Voltage	$V_R$	75	V
Continuous Forward Current (Double Diode Loaded)	I <sub>F</sub>	125	mA
Continuous Forward Current (Single Diode Loaded)	I <sub>F</sub>	215	mA
Repetitive Peak Forward Current	I <sub>FRM</sub>	450	mA
Non-repetitive Peak Forward Current $T_j = 25$ °C at $t = 1 \mu S$		4	
at t = 1 mS	I <sub>FSM</sub>	1	Α
at t = 1 S		0.5	
Power Dissipation	P <sub>tot</sub>	250	mW
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	Ts	- 65 to + 150	°C

## Characteristics at T<sub>a</sub> = 25 °C

Parameter	Cymbol	Mov	Linit
raiametei	Symbol	Max.	Unit
Forward Voltage at $I_F = 1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 50 \text{ mA}$ at $I_F = 150 \text{ mA}$	V <sub>F</sub>	0.715 0.855 1 1.25	V
Reverse Current at $V_R$ = 25 V at $V_R$ = 75 V at $V_R$ = 25 V, $T_j$ = 150 °C at $V_R$ = 75 V, $T_j$ = 150 °C	I <sub>R</sub>	30 1 30 50	nΑ μΑ μΑ μΑ
Diode Capacitance at f = 1 MHz	C <sub>d</sub>	1.5	pF
Reverse Recovery Time at $I_F = I_R = 10 \text{ mA}$ , $I_R = 1 \text{ mA}$ , $R_L = 100 \Omega$	t <sub>rr</sub>	4	ns
Forward Recovery Voltage at $I_F = 10 \text{ mA}$ , $t_r = 20 \text{ ns}$	V <sub>fr</sub>	1.75	<b>V</b>
Thermal Resistance from Junction to ambient 1)	R <sub>thja</sub>	500	K/W

<sup>1)</sup> Device mounted on an FR4 printed-circuit board.



 $V_{R}$ , REVERSE VOLTAGE (V) Fig. 2 Typical Leakage Current vs Reverse Voltage