

SDS160EWT

SILICON EPITAXIAL PLANAR SWITCHING DIODE

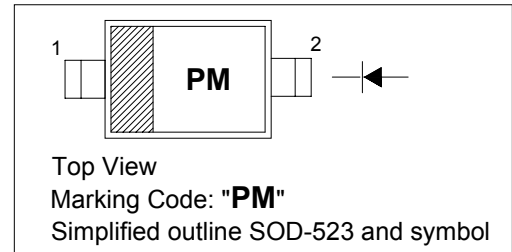
Ultra High Speed Switching Application

Features

- Fast Reverse Recovery Time
- Small Total Capacitance
- Low Forward Voltage

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

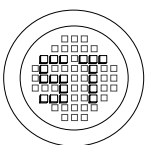


Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	85	V
Reverse Voltage	V_R	80	V
Peak Forward Current	I_{FM}	300	mA
Average Forward Current	I_O	100	mA
Surge Current (10 ms)	I_{FSM}	2	A
Power Dissipation	P_D	150	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_s	-55 to +150	$^\circ\text{C}$

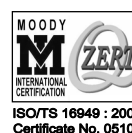
Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min	Max	Unit
Forward Voltage at $I_F = 100\text{ mA}$	V_F	-	1.2	V
Reverse Current at $V_R = 80\text{ V}$	I_R	-	0.5	μA
Total Capacitance at $V_R = 0\text{ V}$, $f = 1\text{ MHz}$	C_T	-	3	pF
Reverse Recovery Time at $I_F = 10\text{ mA}$	t_{rr}	-	4	ns



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Dated : 03/05/2006

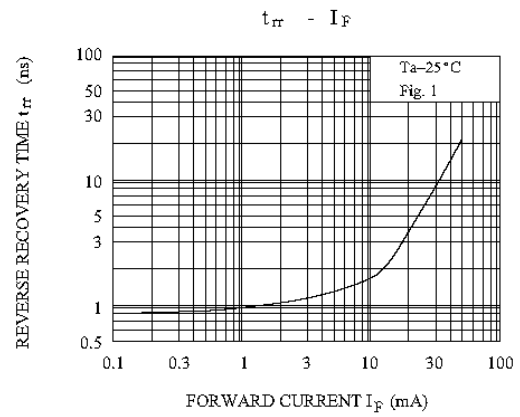
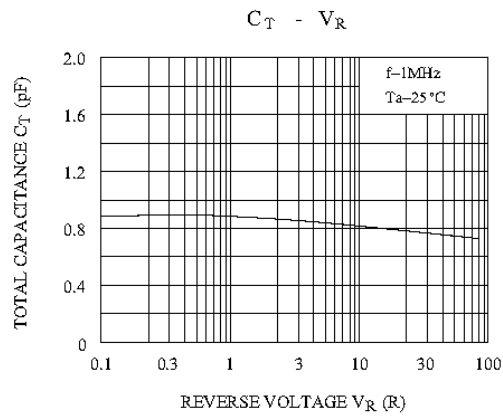
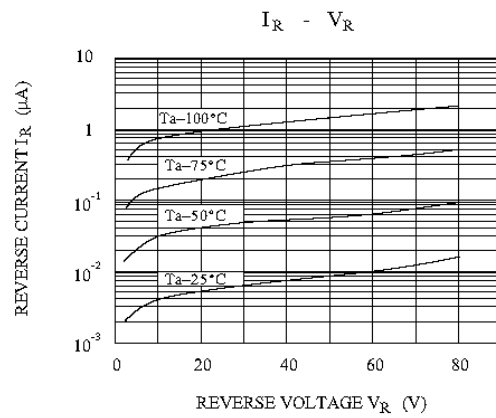
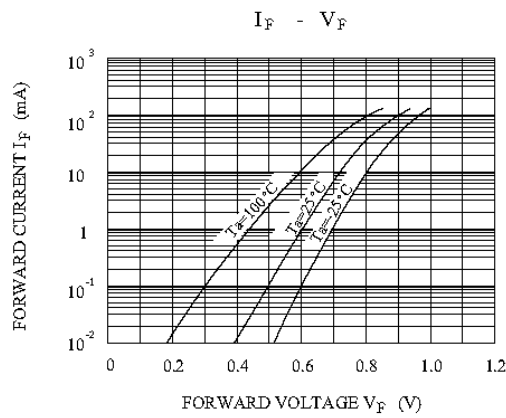
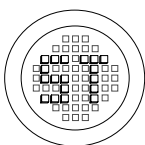
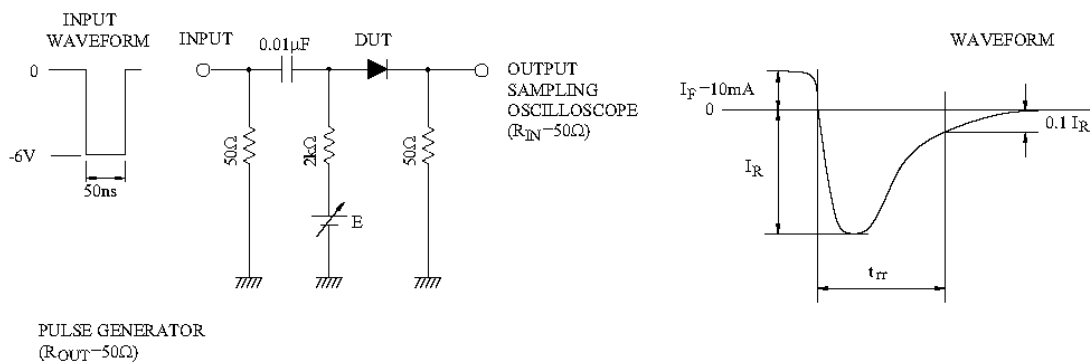


Fig. 1. REVERSE RECOVERY TIME(t_{rr}) TEST CIRCUIT



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ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 7116



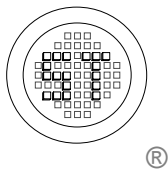
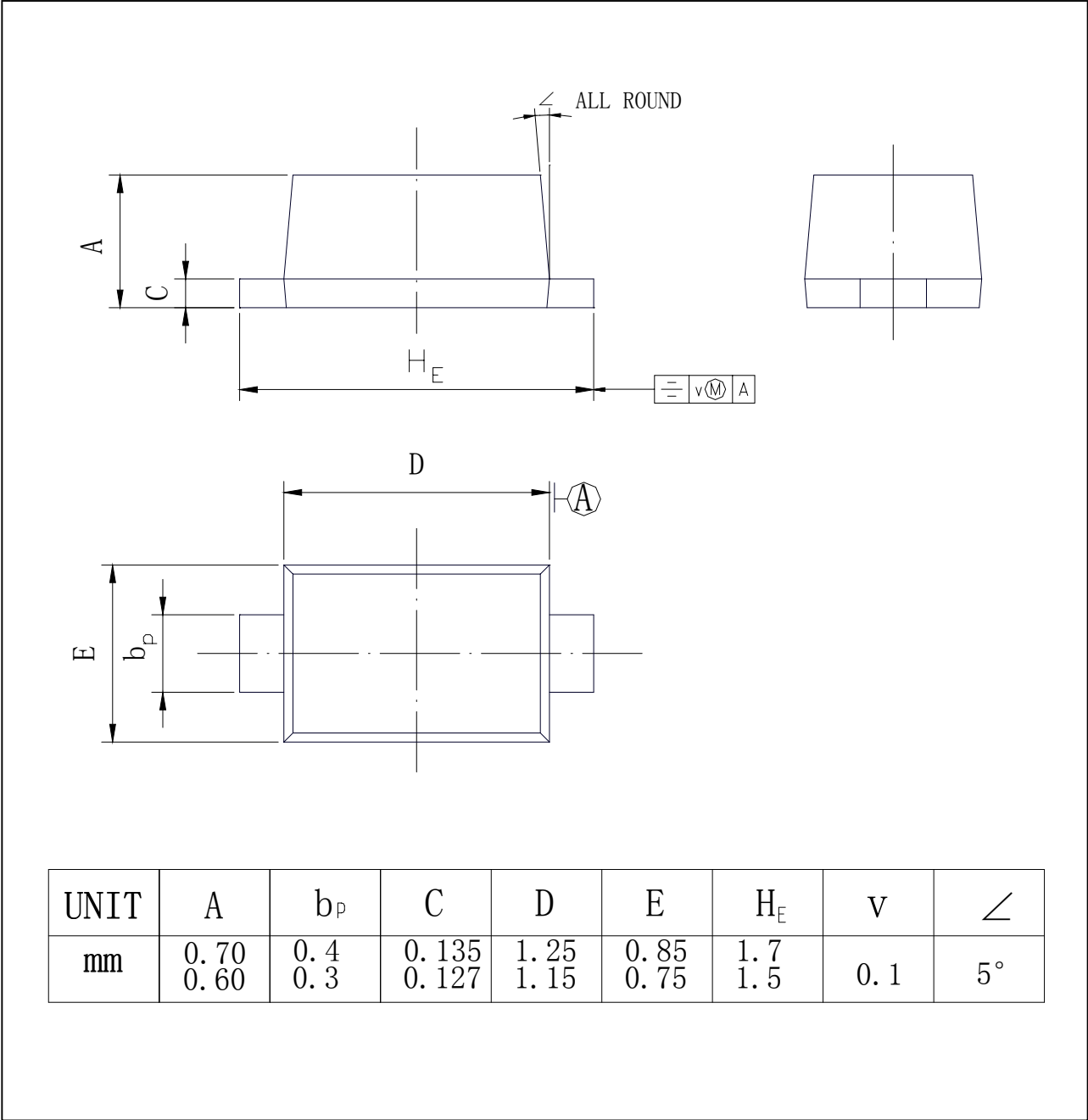
ISO 9001:2000
Certificate No. 0506098

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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



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