

	No.715D	DS446 Silicon Epitaxial Planar Type Temperature Compensation Use Very High-Speed Switching Diode

Features

- Glass sleeve structure
- Power dissipation : $P = 300\text{mW}$ max.
- Interterminal capacitance : $C = 3.0\text{pF}$ max.
- Reverse recovery time : $t_{rr} = 4.0\text{ns}$ max.

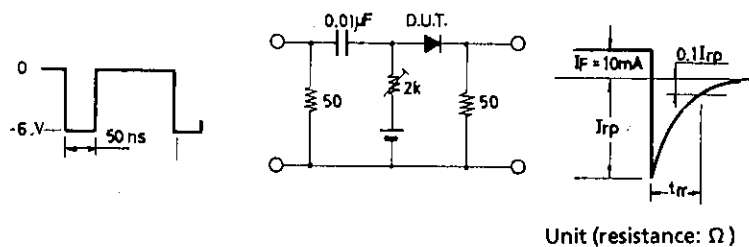
Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

			unit
Peak Reverse Voltage	V_{RM}	-105	V
Reverse Voltage	V_R	-100	V
Peak Forward Current	I_{FM}	500	mA
Average Rectified Current	I_O	200	mA
Surge Forward Current	I_{FSM} 1 s pulse	700	mA
Power Dissipation	P	300	mW
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature	T_{stg}	-65 to +175	$^\circ\text{C}$

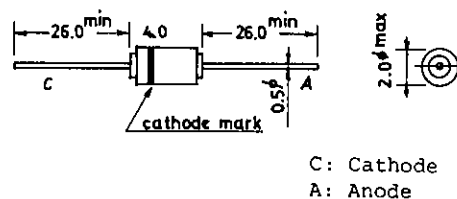
Electrical Characteristics at $T_a = 25^\circ\text{C}$

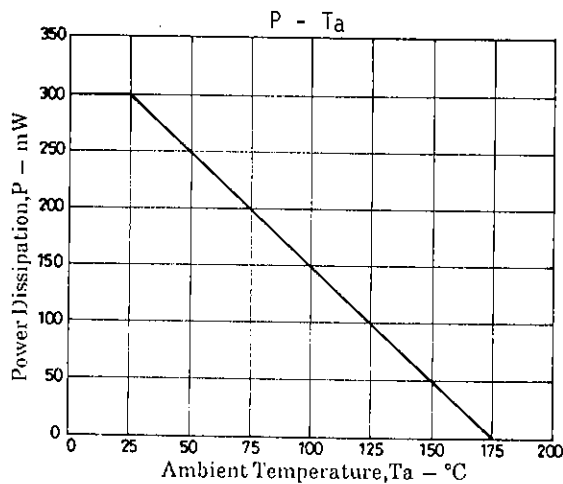
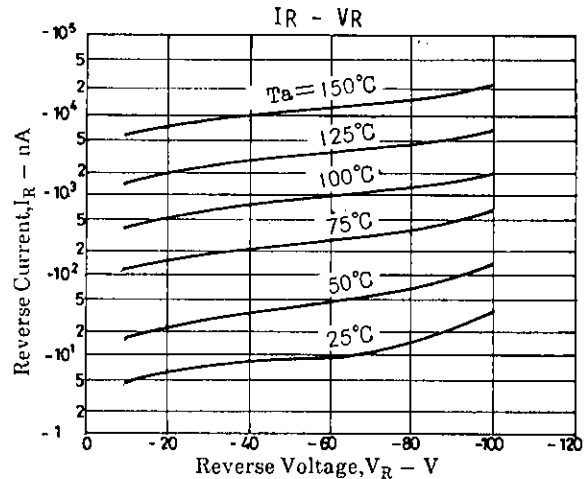
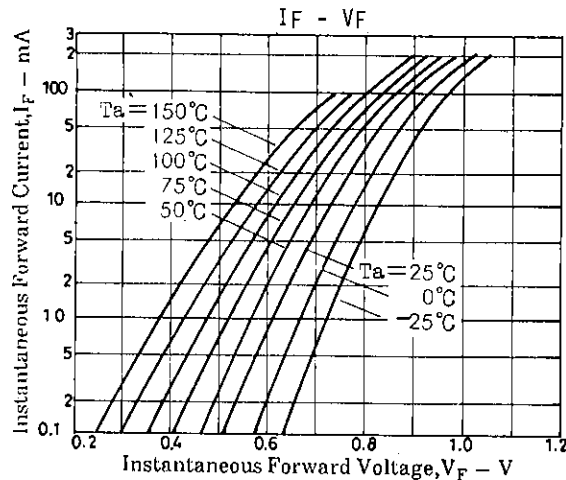
			min	typ	max	unit
Forward Voltage	V_F	$I_F = 1.5\text{mA}$	0.55		0.65	V
Reverse Current	I_R	$V_R = -100\text{V}$			-0.1	μA
Interterminal Capacitance	C	$V_R = 0\text{V}, f = 1\text{MHz}$	1.5	3.0		pF
Reverse Recovery Time	t_{rr}	$V_R = -6\text{V}, I_F = 10\text{mA}, R_L = 50\Omega$	2.0	4.0		ns

Reverse Recovery Time Test Circuit



Package Dimensions 1080 (unit: mm)





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