

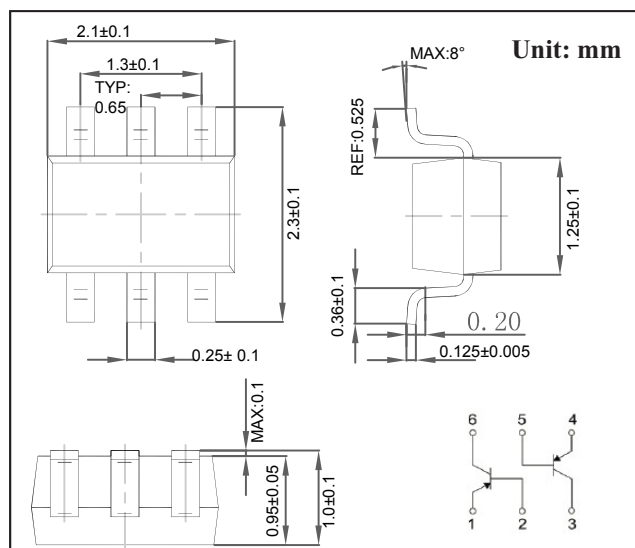
SOT-363 Small Signal Switching Diodes

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High reliability
- High temperature soldering guaranteed: 260 °C/10 seconds at terminals
- Component in accordance to RoHs 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- Case style: SOT-363 molded plastic
- Mounting position: Any



Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	250	V
Peak Repetitive Reverse Voltage	V _{RRM}	250	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	177	V
Forward Continuous Current	I _{FM}	200	mA
Non-Repetitive Peak Forward Surge Current	I _{FSM}	10	A
		8	
		2	

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation	P _D	300	mW
ce Junction to Ambient Air	R _{θJA}	417	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage	V _{(BR)R}	250	—	V	I _R = 100μA
Forward Voltage	V _F	—	1.05	V	I _F = 100mA
		—	1.25		I _F = 200mA
Reverse Current	I _R	—	100	nA	V _R = 200V
			100	μA	V _R = 200V, T _J = +150°C
Total Capacitance	C _T	—	5	pF	V _R = 6, f = 1.0MHz
Reverse Recovery Time	t _{rr}	—	50	n	V _R = 6V, I _F = 5mA

RATINGS AND CHARACTERISTIC CURVES

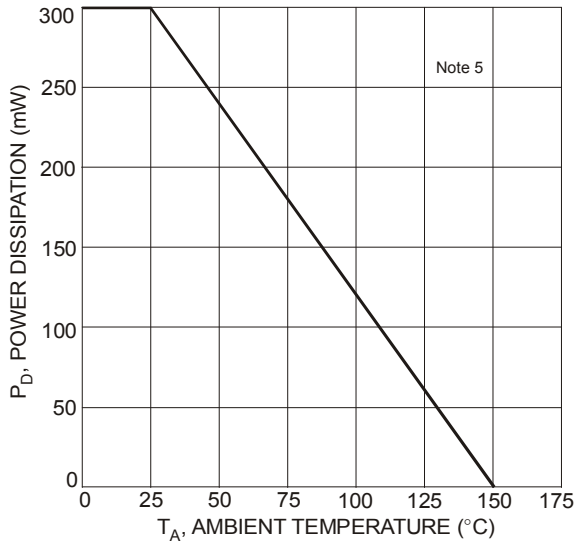


Figure 1 Power Derating Curve, Total Package

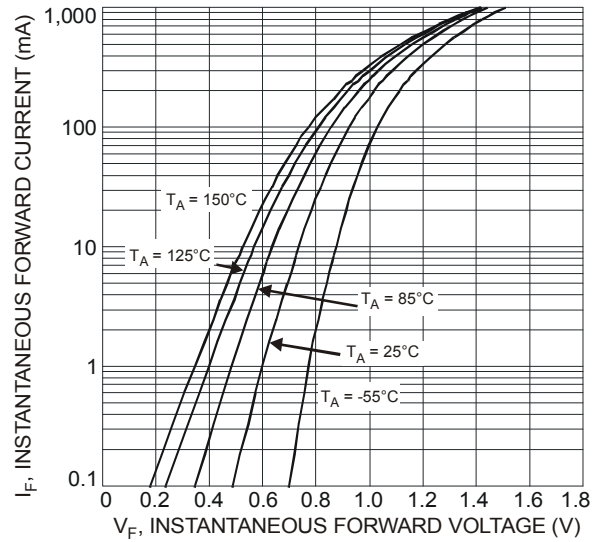


Figure 2 Typical Forward Characteristics, Per Element

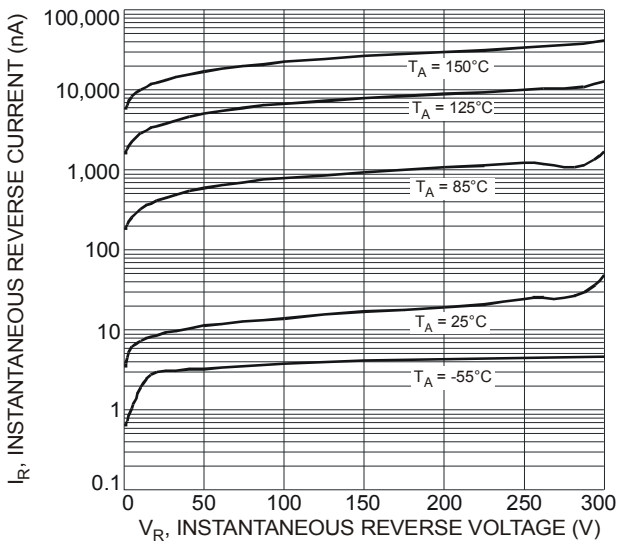


Figure 3 Typical Reverse Characteristics, Per Element

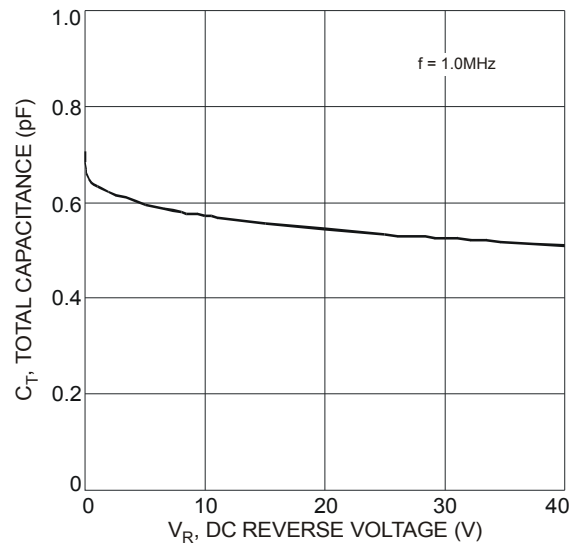


Figure 4 Total Capacitance vs. Reverse Voltage, Per Element