

## Plastic-Encapsulate Diodes

### GENERAL PURPOSE PIN DIODES

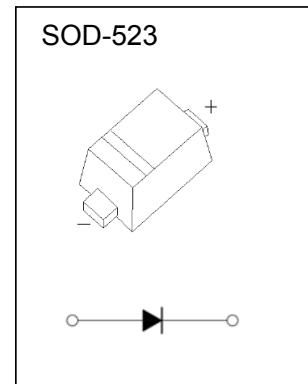
#### FEATURES

- Low diode capacitance
- Low diode forward resistance

#### MARKING: A5



The marking bar indicates the cathode



#### Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

Parameter	Symbol	Limit		Unit
Continuous Reverse Voltage	V <sub>R</sub>	60		V
Continuous Forward Current	I <sub>F</sub>	50		mA
Power Dissipation	P <sub>D</sub>	150		mW
Thermal Resistance from Junction to Ambient	R <sub>θJA</sub>	833		°C/W
Operation Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55~+150		°C

#### Electrical Ratings @Ta=25°C

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Continuous reverse voltage	V <sub>R</sub>	50			V	I <sub>R</sub> =10μA
Forward voltage	V <sub>F</sub>			1.1	V	I <sub>F</sub> =50mA
Reverse current	I <sub>R</sub>			100	nA	V <sub>R</sub> =50V
Diode capacitance	C <sub>d1</sub>		0.4*		pF	V <sub>R</sub> =0V, f=1MHz
	C <sub>d2</sub>			0.55	pF	V <sub>R</sub> =1V, f=1MHz
	C <sub>d3</sub>			0.35	pF	V <sub>R</sub> =5V, f=1MHz
Diode forward resistance	r <sub>D</sub>			9	Ω	I <sub>F</sub> =0.5mA, f=100MHz; note1
	r <sub>D</sub>			6.5	Ω	I <sub>F</sub> =1mA, f=100MHz; note1
	r <sub>D</sub>			2.5	Ω	I <sub>F</sub> =10mA, f=100MHz; note1

Note 1. Guaranteed on AQL basis: inspection level S4, AQL 1.0.



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## Typical Characteristics

