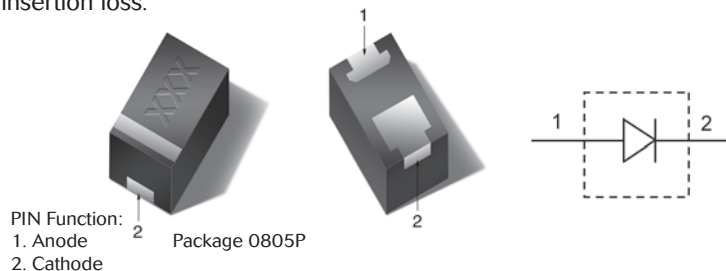


PIN Diode: Medium Power Shunt Switch Element

- Broadband performance up to 2.0 GHz
- Low Insertion Loss
- Cost effective choice for switch applications

The Aeroflex / Metelics MSWSH-050-10 is a PIN diode SPST switch element designed for medium incident power applications, up to 70W C.W. It has low insertion loss.



MSWSH-050-10, $T_C = +25^\circ\text{C}$

Model	V _F		V _{BR}	C _T		R _S		T _L	I _L		I _L		I _{so}		I _{so}	
	TYP mV	MAX mV	MIN V	TYP dB	MAX dB	TYP Ω	MAX Ω	TYP nS	TYP dB	MAX dB	TYP dB	MAX dB	MIN dB	TYP dB	MIN dB	TYP dB
MSWSH-050-10	850	950	500	0.53	0.65	0.4	0.60	3200	0.1	0.2	0.1	0.2	12	15	-	10
Test Conditions	I _F = 50mA		I _R = 10μA	V _R = 50V F = 1 MHz		I _F = 100mA F = 500 MHz		I _F = 10mA I _R = 6mA Measured @ 50%	I _F = 50mA F < 0.5 GHz		I _F = 50mA F < 1.0 GHz		V _R = 50V F < 0.5 GHz		V _R = 50V F < 1.0 GHz	

Maximum Ratings		Rating				Limits			
		V _R				500V			
		I _F				500mA			
		θ _{JC}				10°C/W			
		T _J				+175°C			
		T _{STG}				-55 to +150°C			
		T _{SOLDER}				+260°C per JEDEC J-STD-20C			