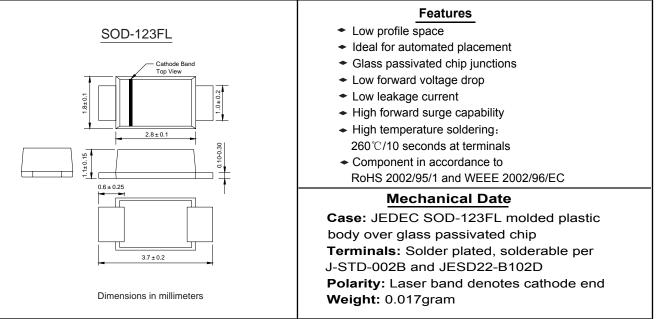


# DSR0.5A THRU DSR0.5M

## Surface Mount Standard Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 0.5 Ampere



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

MDD Catalog Number	SYMBOLS	S05A	S05B	S05D	S05G	S05J	S05K	S05M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	Vdc	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TA=65°C (NOTE 1)	l(AV)	0.5							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) TL=25°C	Іғѕм	15.0							Amps
Maximum instantaneous forward voltage at 0.5A	Vf	1.1							Volts
Maximum DC reverse currentTa=25°Cat rated DC blocking voltageTa=100°C	lr	5.0 50.0							μA
Typical junction capacitance (NOTE 2)	Сл	4							pF
Typical thermal resistance (NOTE 3)	Rθja	220							°C/W
Operating junction and storage temperature range	Тյ,Тstg	-55 to +150							°C

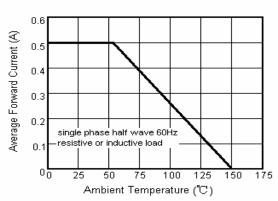
Note1: Mounted on FR-4 P.C.B. With 0.9x1.5 mm copper pad areas  $~(\approx 35~\mu m$  thick)



### **RATINGS AND CHARACTERISTIC CURVES DSR0.5A THRU DSR0.5M**

#### Characteristic Curves (T<sub>A</sub>=25 °C unless otherwise noted)

#### Fig.1 Forward Current Derating Curve





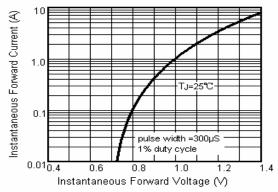
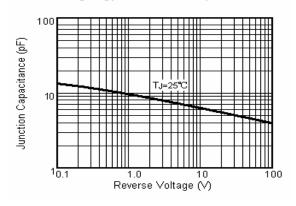
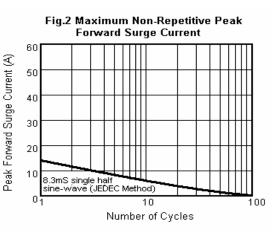
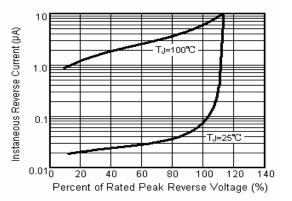


Fig.5 Typical Junction Capacitance











The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!