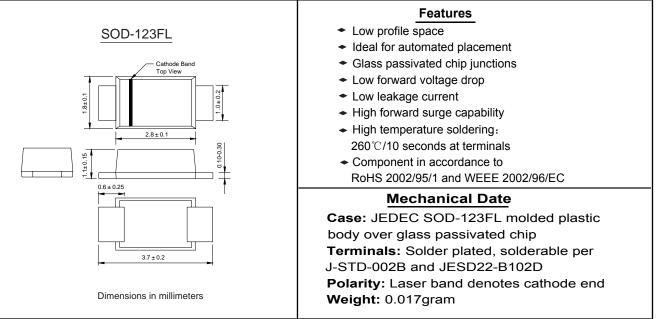


DSR0.5A THRU DSR0.5M

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 |

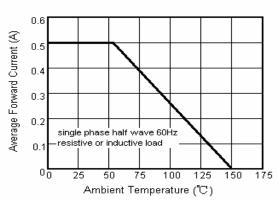
Note1: Mounted on FR-4 P.C.B. With 0.9x1.5 mm copper pad areas $~(\approx 35~\mu m$ thick)



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

Characteristic Curves (T_A=25 °C unless otherwise noted)

Fig.1 Forward Current Derating Curve





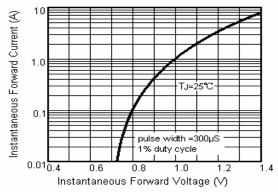
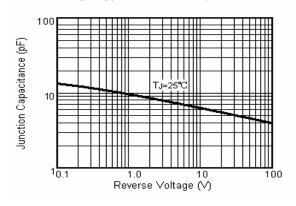
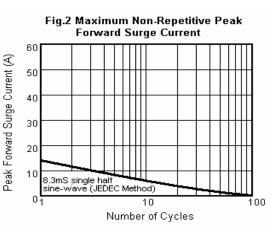
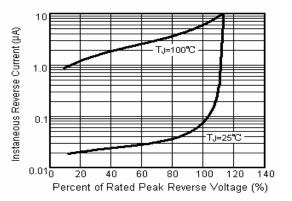


Fig.5 Typical Junction Capacitance











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