



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

SURFACE MOUNT SCHOTTKY DIODE ARRAY

VOLTAGE 40 Volts CURRENT 10 Amperes

SPL1040ACTPT

PROVISIONAL SPEC.

APPLICATION

- * DC to DC Converters
- * Switch- Mode Power Supplies
- * Notebook PC

FEATURE

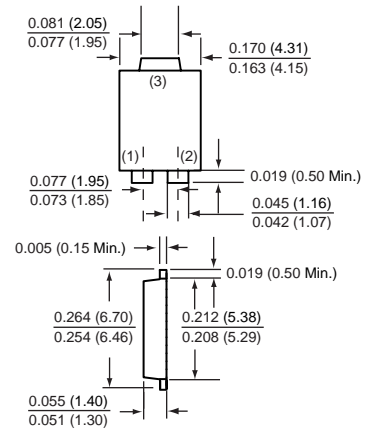
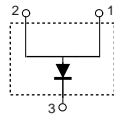
- * Small Surface Mounting Type. (SMP)
- * High speed ($T_{RR}=8.0nSec$ TYP.)
- * Low Power Loss, High Efficiency.
- * Low Forward Voltage Drop.
- * Peak Forward Surge Current Is 100A.
- * Schottky Diode Array .

WEIGHT

MARKING

SMP

CIRCUIT



SMP

| RATINGS | SYMBOL | SPL1040ACTPT | UNITS |
|--|------------------|--------------|---------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 40 | Volts |
| Maximum RMS Voltage | V_{RMS} | 28 | Volts |
| Maximum DC Blocking Voltage | V_{DC} | 40 | Volts |
| Maximum Average Forward Rectified Current | I_O | 10 | Amps |
| Non-Repetitive Peak Forward Surge Current at 8.3 mSec. | I_{FSM} | 100 | Amps |
| Total Capacitance ($f=1.0MHz$, $V_R=4.0VDC$) | C_T | 700 | pF |
| Typical Thermal Resistance | $R_{\theta J-S}$ | 2.5 | $^{\circ}C/W$ |
| Maximum Operating Temperature Range | T_J | -55 to +125 | $^{\circ}C$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | $^{\circ}C$ |

ELECTRICAL CHARACTERISTICS (At $T_A = 25^{\circ}C$ unless otherwise noted)

| CHARACTERISTICS | SYMBOL | SPL1040ACTPT | UNITS |
|-------------------------|----------------------------------|--------------|---------------|
| Typ. Forward Voltage | @ $I_F=5.0A$, $T_s=25^{\circ}C$ | V_F | 0.50 Volts |
| Maximum Reverse Current | @ $V_R=40V$, $T_s=25^{\circ}C$ | I_R | 0.5 mAmps |

RATING CHARACTERISTIC CURVES (SPL1040ACTPT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

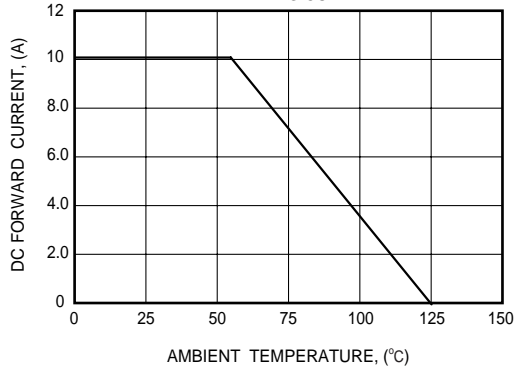


FIG. 2 - FORWARD CHARACTERISTICS

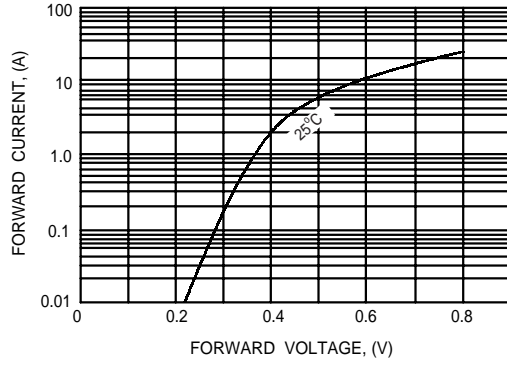


FIG. 3 - REVERSE CHARACTERISTICS

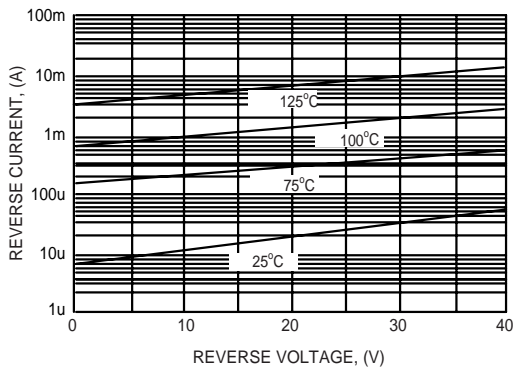


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

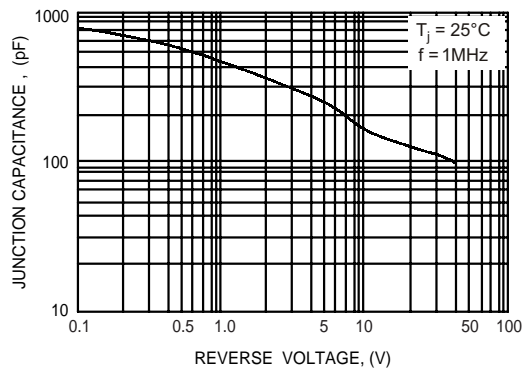


FIG. 5 - MAX. NON-REPETITIVE PEAK FORWARD SURGE CURRENT

