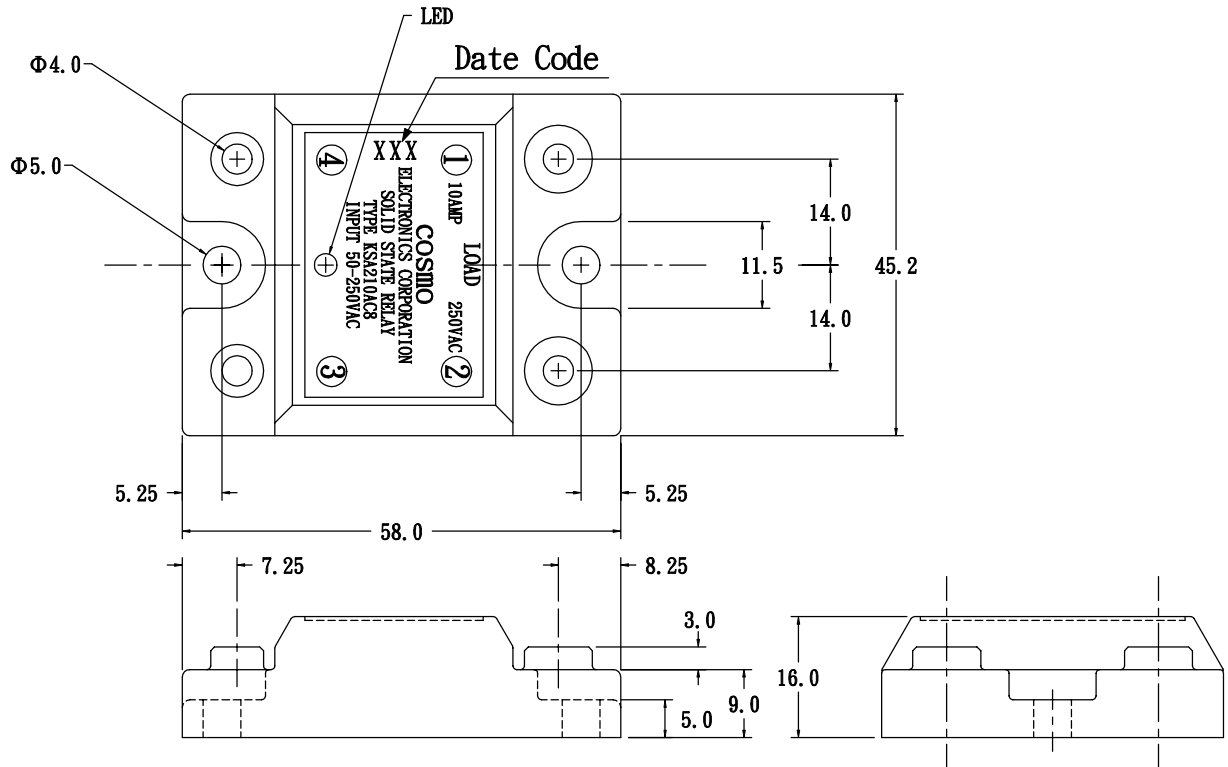


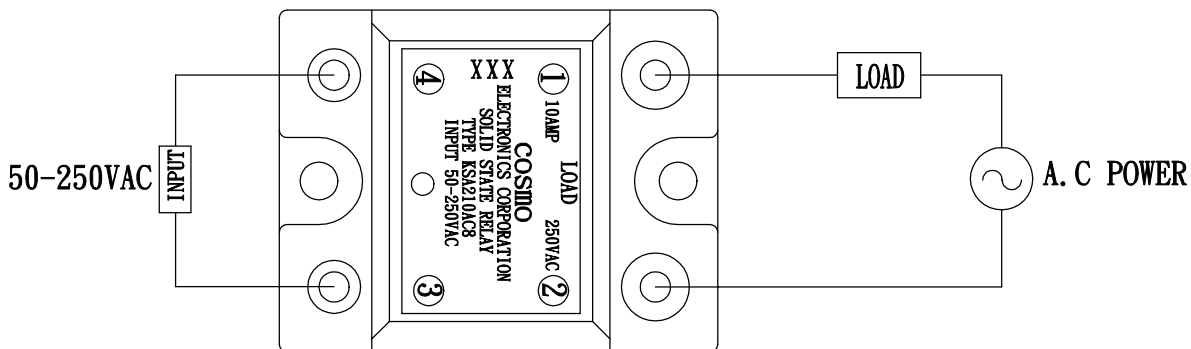
PRODUCT SPECIFICATION

| | | |
|---|--|---------------------|
| <p>COSMO ELECTRONICS CORPORATION</p> | <p>SOLID STATE RELAY: KSA210AC8</p> | <p>SHEET 1 OF 2</p> |
|---|--|---------------------|

1. OUTSIDE DIMENSION : UNIT (mm)



2. SCHEMATIC : TOP VIEW



PRODUCT SPECIFICATION

| | | |
|---|--|--------------|
| COSMO ELECTRONICS CORPORATION | SOLID STATE RELAY: KSA210AC8 | SHEET 2 OF 2 |
|---|--|--------------|

3. Absolute Maximum Ratings

(Ta=25°C)

| Parameter | | Symbol | Rating | Unit |
|-----------------------------------|---|--------------------|---------|---------------------|
| Input | Input signal voltage | V _{IN} | 50~250 | VAC |
| | Drop-out voltage | V _{do} | 10 | VAC |
| Output | RMS on-state current | I _T | 10 | Arms |
| | Peak one cycle surge current (8.3ms) | I _{surge} | 100 | A |
| | Repetitive peak-off state voltage | V _{DRM} | 600 | V |
| | Operating frequency | f | 47~70 | Hz |
| | Critical rate of rise of on-state current | di/dt | 50 | A/us |
| | Load supply voltage | V _{out} | 250 | V _{rms} AC |
| Isolation voltage input to output | | V _{iso} | 4000 | V _{rms} |
| Operating temperature | | T _{opr} | -30~100 | °C |
| Storage temperature | | T _{stg} | -30~125 | °C |
| Soldering temperature 10sec | | T _{sol} | 300 | °C |

4. Electro-optical Characteristics

(Ta=25°C)

| Parameter | | Symbol | Conditions | MIN | TYP | MAX | Unit |
|---|--|---------------------------|---------------------------------------|-----|-----|-----|------------------|
| Input | Pick-up voltage | V _{pu} | R _{in} =11KΩ | | | 50 | VAC |
| | Input current | R _{in} | | | 11 | | KΩ |
| Output | On-state voltage | V _T | I _T =1Arms | | | 1.5 | V _{rms} |
| | Operating current | I _{op} | V _{out} =220V _{rms} | 50 | | | mArms |
| | Leakage current | I _{leak} | V _{out} =220V _{rms} | | 3.5 | 8 | mArms |
| | Critical rate of rise of off-state voltage | dv/dt | | 100 | | | V/us |
| | Zero-cross voltage | V _{ox} | I _f =25mA | | | 35 | VAC |
| | Load Voltage Rating | V _{out} | I _T =50mArms MIN | 50 | | 280 | VAC |
| Minimum trigger current | | I _{FT} | V _{DRM} =600V | | | 25 | mA |
| Isolation resistance input to output | | R _{iso} | DC500V | 10 | | | GΩ |
| Turn-on time | | T _{on} | 60Hz AC | | | 8.3 | ms |
| Turn-off time | | T _{off} | 60Hz AC | | | 8.3 | ms |
| Thermal resistance (between junction and case) | | R _{th} (j-c)1 | | | 2.5 | | °C/W |