

WEE Technology Company Limited

Ultra-Fast Recovery Rectifiers

| MURS140 THRU MURS160 | VOLTAGE RANGE CURRENT | 400 to 600 Volts 1.0 Ampere |
|--|----------------------------|---|
| FEATURES Low forward voltage drop High current capability Low power loss, high efficiency High reliability High surge current capacity High temperature soldering guaranteed | 0.086(2.20) 0.077(1.95) | 214AA(SMB) 0.155(3.94) 0.130(3.30) 0.180(4.57) 0.160(4.06) |
| MECHANICAL DATA Case: Mold plastic Epoxy: UL94V-0 rate flame retardant Polarity: Color band denotes cathode end Lead: Plated axial lead, solderable per MIL-STD-202E method 208 Mounting position: Any Weight: 0.042ounce, 1.19 gram | - | 0.012(0.305) 0.006(0.152) 0.008 (0.203) MAX. 0.220(5.59) 0.205(5.21) s in inches and (millimeters) |

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25℃ ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

| | | SYMBOLS | MURS140 | MURS160 | |
|---|-----------------------|--------------------|---------------|---------|-------|
| Maximum Repetitive Peak Reverse Voltage | | V _{RRM} | 400 | 600 | Volts |
| Maximum RMS Voltage | | V _{RMS} | 280 | 420 | Volts |
| Maximum DC Blocking Voltage | | V _{DC} | 400 | 600 | Volts |
| Maximum Average Forward Rectified Current | | I _{F(AV)} | 1 | | Amps |
| Peak Forward Surge Current,8.3mS single half sine- wave superimposed on rated load (JEDEC method) | | I _{FSM} | 35 | | Amps |
| Maximum Instantaneous Forward Voltage at 4.0A(NOTE1) | | V _F | 1.25 | | Volts |
| Maximum DC Reverse Current at rated DC blocking Voltage at | T _A = 25℃ | | 10 250 | | μΑ |
| | T _A = 100℃ | I _R – | | | |
| Maximum Reverse Recovery Time (I_{F} = 0.5A, I_{R} = 1.0A, I_{RR} =0.25A) | | t _{rr} | 50 | | nS |
| Typical Junction Capacitance (NOTE2) | | CJ | 45 | | pF |
| Typical Thermal Resistance (NOTE3) | | R _{θJA} | 13 | | °C/W |
| Operating Junction Temperature Range | | TJ | (-55 to +150) | | °C |
| Storage Temperature Range | | T _{STG} | (-55 to +150) | | °C |

NOTE1.Pulse test: $t_P=300\mu S$, duty cycle≤2%.

NOTE2.Measured at 1.0MHz and applied reverse voltage of 4.0V

NOTE3.Thermal Resistance from Junction to Ambient with 1/2 " Lead length on P.C.Board with 1.5."x1.5 "copper pads.

Web: www.weetcl.com Blog: www.weediode.com , www.smddip.com

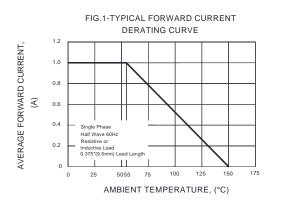


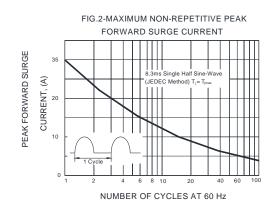
WEE Technology Company Limited Ultra-Fast Recovery Rectifiers

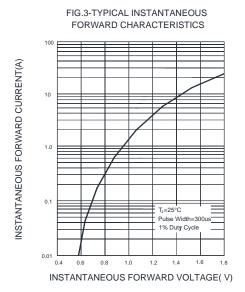
MURS140 THRU MURS160

VOLTAGE RANGE CURRENT **400 to 600 Volts** 1.0 Ampere

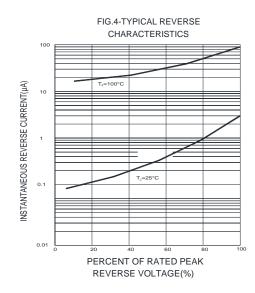
RATINGS AND CHARACTERISTIC CURVES







We Enhance Efficiency



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.

 $Web: www.weetcl.com \ Blog: www.weediode.com \ , www.smddip.com$