6 Lake Street, Lawrence, MA 01841
1-800-446-1158 / (978) 620-2600 / Fax: (978) 689-0803
Website: http: //www.microsemi.com

TECHNICAL DATA SHEET

35 and 45 VOLTS, 10 AMP DUAL SCHOTTKY COMMON CATHODE CENTERTAP RECTIFIER

Qualified per MIL-PRF-19500/678

DEVICES

1N6840U3 1N6841U3

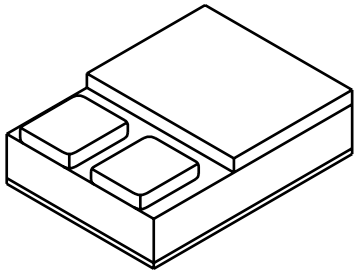
LEVELS

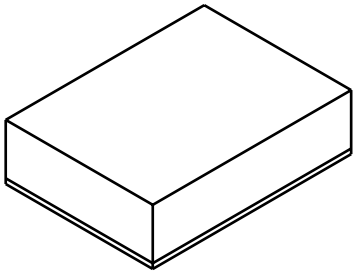
JAN
JANTX
JANTXV

FEATURES

- Low Profile Ceramic SMD
- High Surge Rating
- Low Reverse Leakage Current
- Low Forward Voltage
- Low Power Losses

U3 Package (SMD-0.5)





ABSOLUTE MAXIMUM RATINGS ***(T_C = +25°C unless otherwise noted) (per Leg)***

Parameters / Test Conditions	Symbol	Value	Unit
Peak Repetitive Reverse and DC Blocking Volt 1N6840U3 1N6841U3	V_{RRM} V_{RWN} V_R	 35 45	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, T_A = 25°C)	I_O	10	Amps
Peak Surge Current (8.3ms Pulse, T_A = 25°C, per leg)	I_{FSM}	200	Amps
Operating & Storage Temperature	T_{op} & T_{stg}	-65 to + 150	°C
Maximum Thermal Resistance Junction to Case, each individual diode Junction to Case Note 1	$R_{\theta JC}$	 2.8 1.7	°C/W

Note 1: Both legs tied together

6 Lake Street, Lawrence, MA 01841
1-800-446-1158 / (978) 620-2600 / Fax: (978) 689-0803
Website: http: //www.microsemi.com

TECHNICAL DATA SHEET

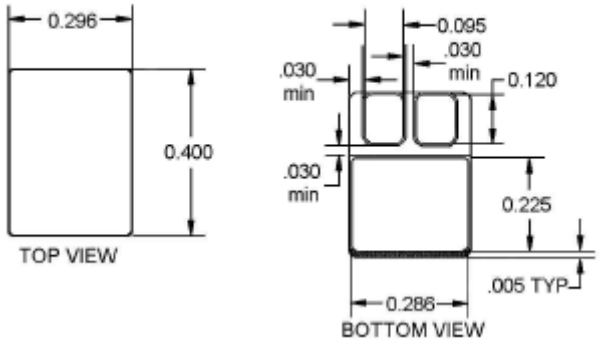
35 and 45 VOLTS, 10 AMP DUAL SCHOTTKY COMMON CATHODE CENTERTAP RECTIFIER

Qualified per MIL-PRF-19500/678

ELECTRICAL CHARACTERISTICS (per leg)

Parameters / Test Conditions	Symbol	Min.	Max.	Unit
Instantaneous Forward Voltage Drop I_F = 3Adc, T_A = 25°C, 300µs Pulse I_F = 10Adc, T_A = 25°C, 300µs Pulse I_F = 20Adc, T_A = 25°C, 300µs Pulse	V_F		0.62 0.75 0.88	Vdc
Instantaneous Forward Voltage Drop I_F = 10Adc, T_A = 100°C, 300µs Pulse I_F = 20Adc, T_A = 100°C, 300µs Pulse	V_F		0.63 0.70	Vdc
Reverse Leakage Current Rated V_R, T_A = 25°C, 300µs pulse minimum	I_R		100	µA
Reverse Leakage Current Rated V_R, T_A = 100°C, 300µs pulse minimum	I_R		15	mA
Junction Capacitance V_R = 10Vdc, T_A = 25°C, f = 1MHz	C_J		400	Pf

CASE OUTLINE: SMD-0.5



6 Lake Street, Lawrence, MA 01841
1-800-446-1158 / (978) 620-2600 / Fax: (978) 689-0803
Website: http: //www.microsemi.com

35 and 45 VOLTS, 10 AMP DUAL SCHOTTKY COMMON CATHODE CENTERTAP RECTIFIER

Qualified per MIL-PRF-19500/678

TYPICAL OPERATING CURVES

(TA=25°C Unless otherwise specified)

