

MELF Fast Recovery



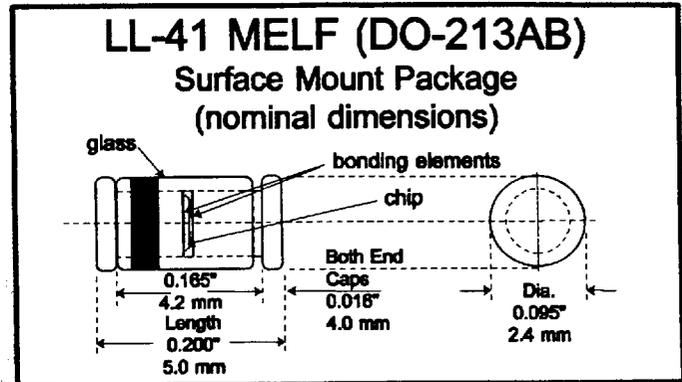
1 Amp Rectifiers

Use Advantages

These power rectifiers are used in fast switching, high efficiency applications. Competitive surface mount replacement for plastic SMB rectifiers. Particularly useful in switching regulator power supplies. Used in harsh environments where hermeticity and performance are important. May be used on ceramic boards along with high temperature IR solder reflow. Series may be processed to Source Control Drawings.

Features

- Humidity proof glass
- Thermally matched system
- Metallurgically bonded
- No thermal fatigue
- Sigma Bond™ plated contacts
- 100% guaranteed solderability
- Problem free assembly
- Six Sigma quality
- Glass leaded DO-41 types available



Absolute Maximum Ratings	Symbol	Value	Unit
BKC Power Dissipation at end cap temperature = 75 °C	P_{tot}	1.5	Watts
Average Forward Rectified Current at 75 °C	I_{AV}	1.0	Amps
Junction & Storage Temperature Range	$T_{J&S}$	-65 to +200	°C
Maximum Non Repetitive Surge (8.3ms)	I_{FSM}	35	Amps
Thermal Resistance at end cap temperature = 75 °C	$R_{\theta JC}$	60	°C/W

Characteristics at T = 25 °C

Type	Peak Inverse Voltage (MIN.) (PIV) Volts	Maximum Forward Voltage Drop @ 1.0A (V_F) @ 25 °C (V_F) @ 150 °C Volts		Maximum Leakage Current (I_R) @ PIV 25 °C 150 °C μA		Typical Junction Capacitance @ -10V (C_O) pF	Maximum* Reverse Recovery (t_{rr}) nS
		Volts	Volts	μA	μA		
MURL120	200	1.25	1.05	5.0	150	15	50
MURL130	300	1.25	1.05	5.0	150	15	50
MURL140	400	1.25	1.05	5.0	150	15	50
MURL150	500	1.25	1.05	5.0	150	15	50

* $I_F = 0.5 A, I_R = 1.0 A, I_{REC} @ 0.25A$
For a DO-41 leaded glass package, remove the "L" in the part number.

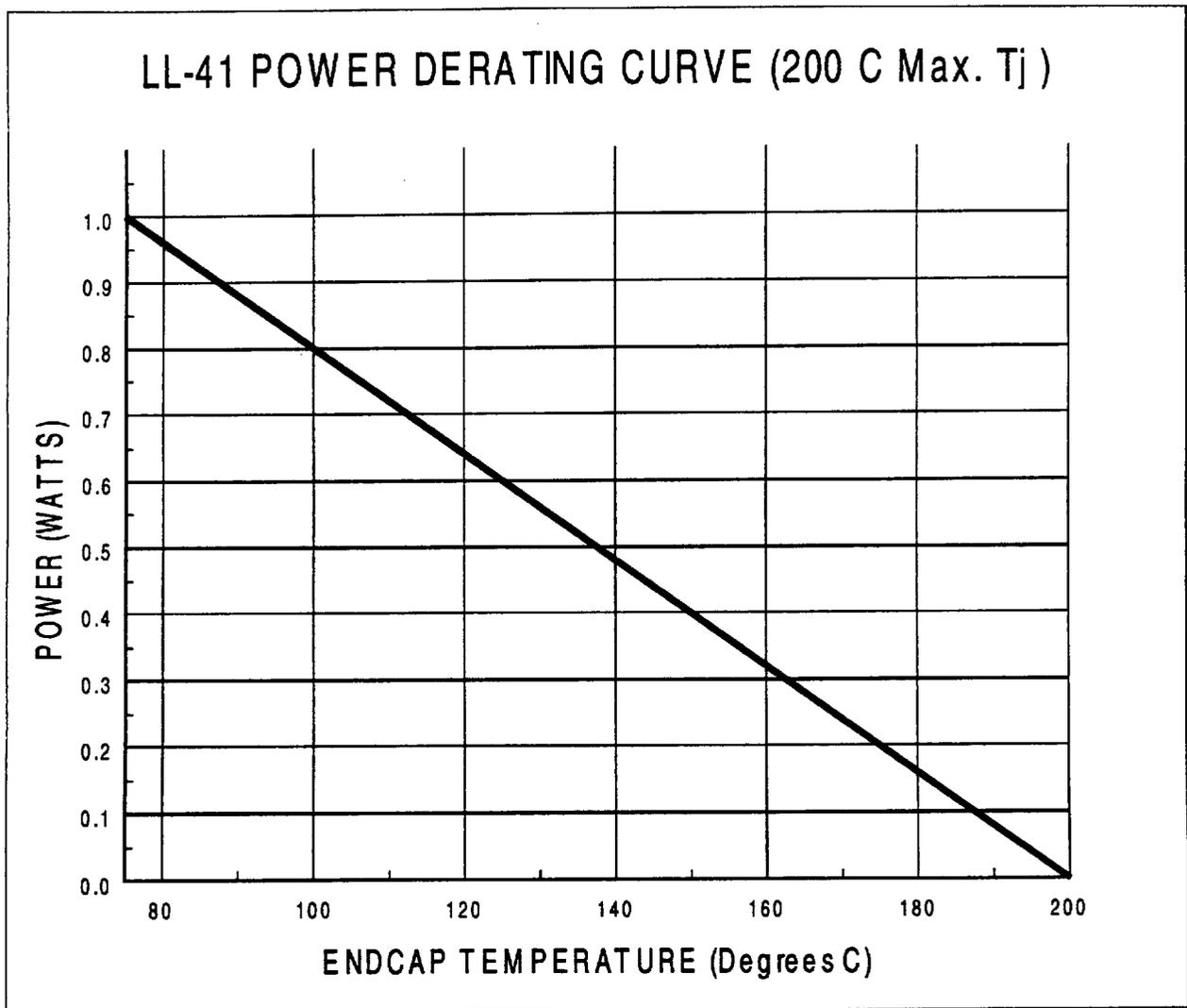


BKC Semiconductors Inc.

6 Lake St · Lawrence, MA · 01841 · tel: (978) 681-0392 · fax: (978) 681-9135

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MURL120 thru MURL150 Melf Rectifier Diodes Derating Curve



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