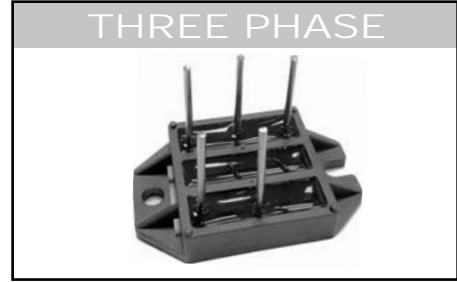




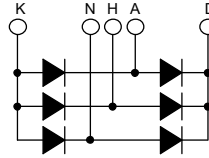
THREE PHASE STANDARD RECOVERY BRIDGE 86A

Preliminary



Features

- High Surge Capability
- Types up to 1600V  $V_{RRM}$
- Isolation Type Package

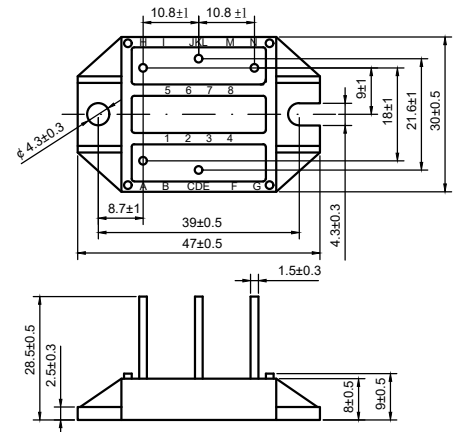


Dimensions in mm (1 mm = 0.0394")

Maximum Ratings

- Junction Operating Temperature : -40°C to +150°C
- Storage Temperature : -40°C to +125°C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
DAR3PV086-160W	1600V	1600V



Electrical Characteristics @ 25°C Unless Otherwise Specified

Definition	Conditions	Symbol	min.	typ.	max.	Unit
Bridge output current	$T_c = 90^\circ\text{C}$ , per module $T_{vj} = 150^\circ\text{C}$	$I_{DAV}$			90	A
Max. forward surge current	$t = 10\text{ ms}$ ; (50 Hz), sine $t = 8,3\text{ ms}$ ; (60 Hz), sine $T_{vj} = 45^\circ\text{C}$ $V_R = 0\text{ V}$	$I_{FSM}$			550 595	A A
	$t = 10\text{ ms}$ ; (50 Hz), sine $t = 8,3\text{ ms}$ ; (60 Hz), sine $T_{vj} = 150^\circ\text{C}$ $V_R = 0\text{ V}$				470 505	A A
Value for fusing	$t = 10\text{ ms}$ ; (50 Hz), sine $t = 8,3\text{ ms}$ ; (60 Hz), sine $T_{vj} = 45^\circ\text{C}$ $V_R = 0\text{ V}$	$I^2t$			1.52 1.48	$\text{kA}^2\text{s}$ $\text{kA}^2\text{s}$
	$t = 10\text{ ms}$ ; (50 Hz), sine $t = 8,3\text{ ms}$ ; (60 Hz), sine $T_{vj} = 150^\circ\text{C}$ $V_R = 0\text{ V}$				1.11 1.06	$\text{kA}^2\text{s}$ $\text{kA}^2\text{s}$
Reverse current	$V_R = 1600\text{ V}$ $T_{vj} = 25^\circ\text{C}$ $V_R = 1600\text{ V}$ $T_{vj} = 150^\circ\text{C}$	$I_R$			40 1.5	$\mu\text{A}$ mA
Forward voltage drop	$I_F = 80\text{ A}$ $T_{vj} = 25^\circ\text{C}$	$V_F$			1.5	V
Threshold voltage for power loss calculation only	$T_{vj} = 150^\circ\text{C}$	$V_{F0}$			0.8	V
		$r_F$			7.8	m $\Omega$
Total power dissipation	$T_c = 25^\circ\text{C}$	$P_{tot}$			135	W
Junction capacitance	$V_R = 400\text{ V}$ ; $f = 1\text{ MHz}$ $T_{vj} = 25^\circ\text{C}$	$C_J$		20		pF
Creepage distance on surface and Striking distance through air	terminal to terminal terminal to backside	$d_{Spp/App}$	6.0			mm
		$d_{Spb/Appb}$	10.0			mm
Isolation voltage	50/60 Hz, RMS; $I_{ISOL} \leq 1\text{ mA}$ $t = 1\text{ second}$ $t = 1\text{ minute}$	$V_{ISOL}$	3000 2500			V V
Thermal resistance junction to case		$R_{thJC}$			0.9	K/W
Thermal resistance case to heatsink		$R_{thCH}$		0.4		K/W
Mounting torque		$M_D$	1.4		2	Nm



Figure .1- Typical Forward Characteristics

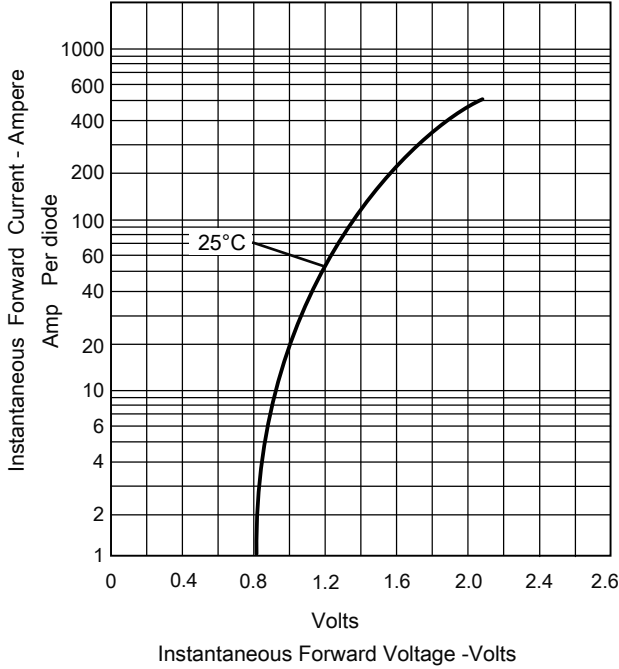


Figure .2-Bridge Output Current Curve

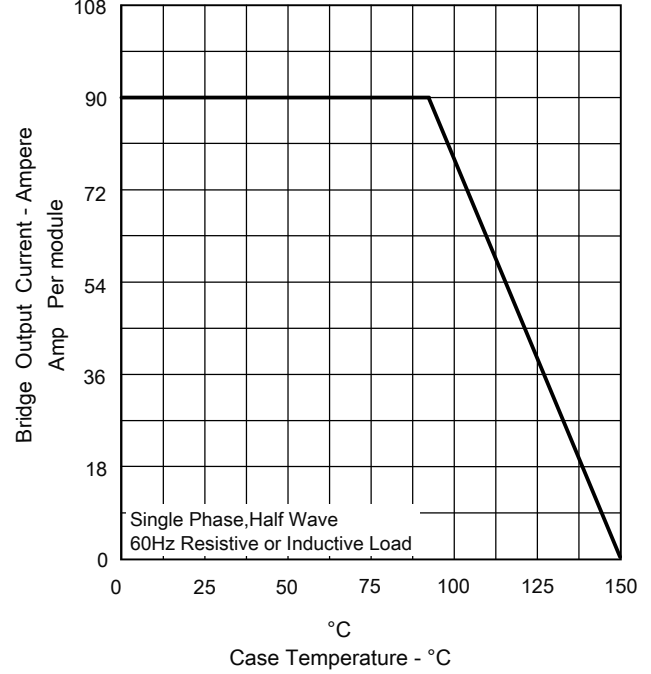


Figure .3- Peak Forward Surge Current

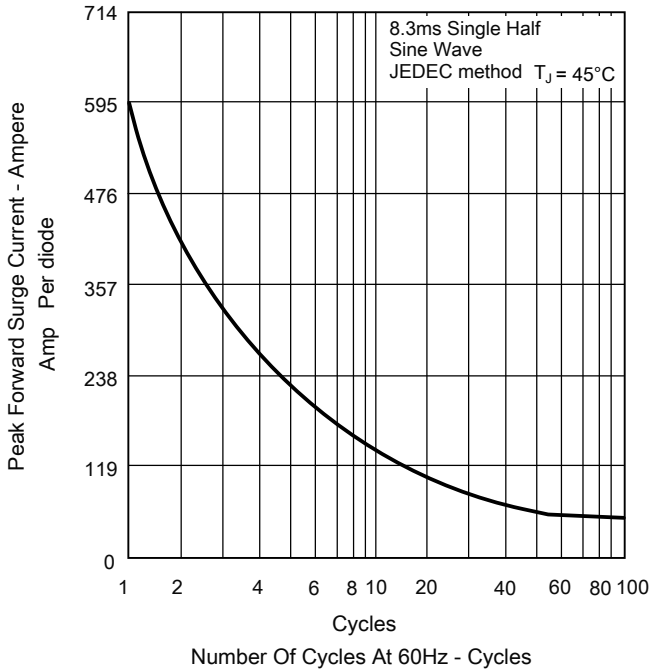
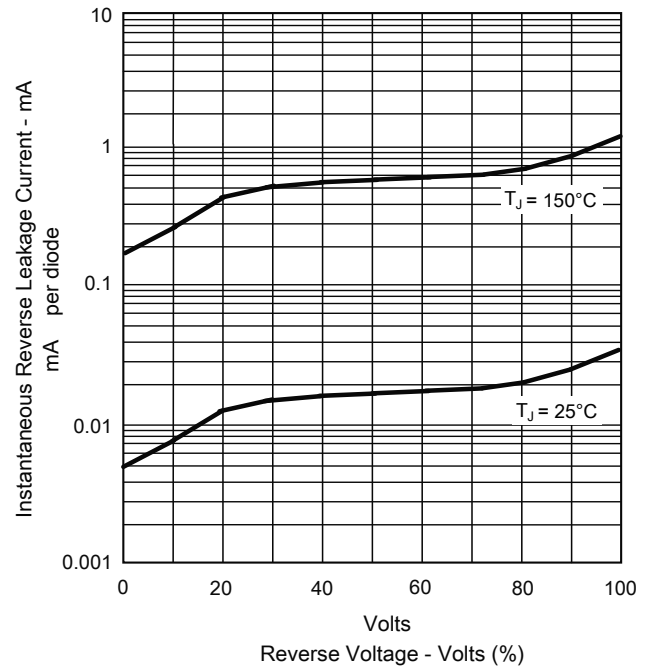


Figure .4 -Typical Reverse Characteristics





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