

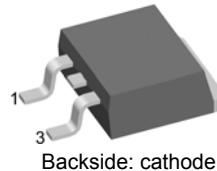
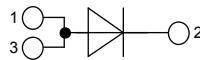
Standard Rectifier

Single Diode

V_{RRM} = 800 V
I_{FAV} = 20 A
V_F = 1.12 V

Part number

DLA 20 IM 800 PC

**Features / Advantages:**

- Planar passivated chips
- Very low leakage current
- Very low forward voltage drop
- Improved thermal behaviour

Applications:

- Diode for main rectification

Package:

- Housing: TO-263 (D2Pak)
- Industry standard outline
- Epoxy meets UL 94V-0
- RoHS compliant

E72873

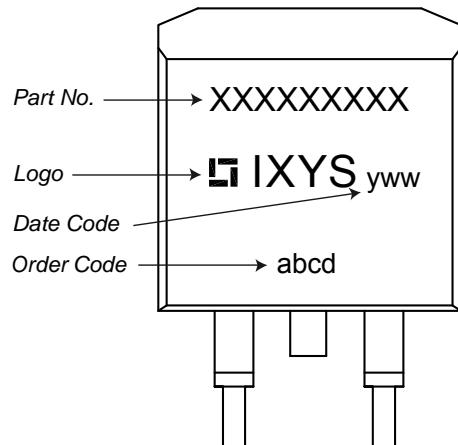
Symbol	Definition	Conditions	Ratings			
			min.	typ.	max.	Unit
V _{RRM}	max. repetitive reverse voltage	T _{VJ} = 25°C			800	V
I _R	reverse current	V _R = 800V T _{VJ} = 25°C			10	µA
		V _R = 800V T _{VJ} = 150°C			0.05	mA
V _F	forward voltage	I _F = 20A T _{VJ} = 25°C			1.20	V
		I _F = 40A				V
		I _F = 20A T _{VJ} = 150°C			1.12	V
		I _F = 40A				V
I _{FAV}	average forward current	rectangular, d = 0.5 T _C = 120°C			20	A
V _{F0} r _F	threshold voltage slope resistance } for power loss calculation only	T _{VJ} = 175°C			0.80	V
					19	mΩ
R _{thJC}	thermal resistance junction to case				1.80	K/W
T _{VJ}	virtual junction temperature		-55		175	°C
P _{tot}	total power dissipation	T _C = 25°C			83	W
I _{FSM}	max. forward surge current	t = 10 ms (50 Hz), sine T _{VJ} = 45°C			200	A
		t = 8,3 ms (60 Hz), sine V _R = 0 V			220	A
		t = 10 ms (50 Hz), sine T _{VJ} = 150°C			180	A
		t = 8,3 ms (60 Hz), sine V _R = 0 V			200	A
I ² t	value for fusing	t = 10 ms (50 Hz), sine T _{VJ} = 45°C			205	A ² s
		t = 8,3 ms (60 Hz), sine V _R = 0 V			207	A ² s
		t = 10 ms (50 Hz), sine T _{VJ} = 150°C			167	A ² s
		t = 8,3 ms (60 Hz), sine V _R = 0 V			172	A ² s
C _J	junction capacitance	V _R = tbdV; f = 1 MHz T _{VJ} = 25°C		tbd		pF

Symbol	Definition	Conditions	Ratings			
			min.	typ.	max.	
I_{RMS}	RMS current	per pin ¹⁾			35	A
R_{thCH}	thermal resistance case to heatsink			0.25		K/W
T_{stg}	storage temperature		-55		150	°C
Weight				2		g
F_c	mounting force with clip		20		60	N

¹⁾ I_{RMS} is typically limited by: 1. pin-to-chip resistance; or by 2. current capability of the chip.

In case of 1, a common cathode/anode configuration and a non-isolated backside, the whole current capability can be used by connecting the backside.

Product Marking

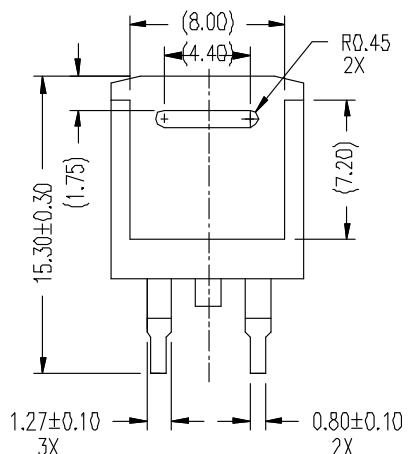
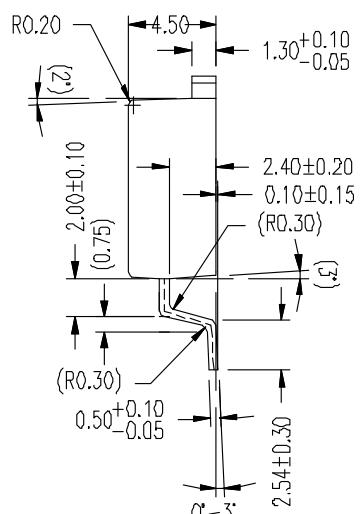
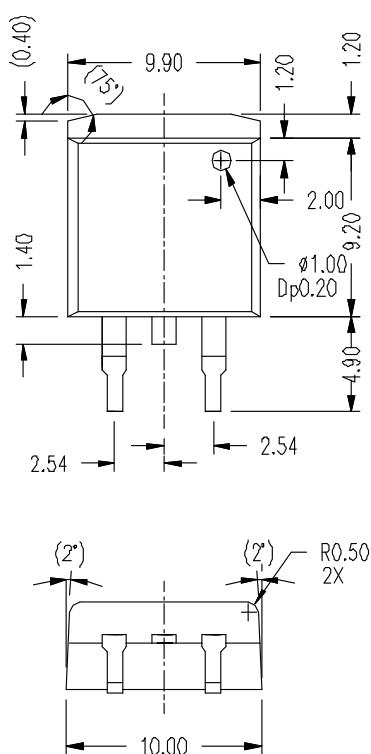


Part number

D = Diode
 L = Standard Rectifier
 A = (up to 1200V)
 20 = Current Rating [A]
 IM = Single Diode
 800 = Reverse Voltage [V]
 PC = TO-263AB (D2Pak) (2)

Ordering	Part Name	Marking on Product	Delivering Mode	Base Qty	Code Key
Standard	DLA 20 IM 800 PC	DLA20IM800PC	Tape & Reel	800	

Outlines TO-263 (D2Pak)



NOTE:

- NOTE:
 1. These dimensions do not include mold protusion.
 2. () is reference dimension only.