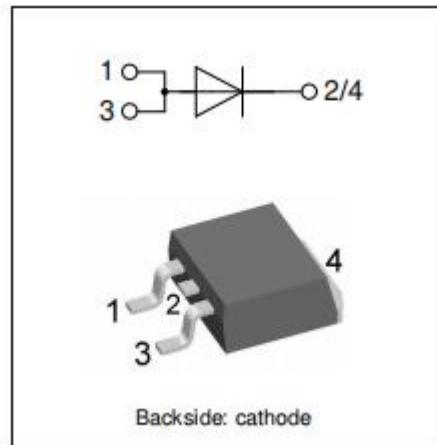


DESCRIPTION:

The rectifier High Voltage Series has been optimized for very low forward voltage drop. The glass passivation technology used has reliable operation up to 150 °C junction temperature

**APPLICATIONS:**

- Input rectification
- Semiconductors switches and output rectifiers which are available in identical package outlines

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Test Conditions	Value	Unit
Storage junction temperature range	T _{stg}		-55 ~ 150	°C
Operating junction temperature range	T _j		-55~150	°C
Maximum Repetitive peak reverse voltage	V _{RRM}		1600	V
Maximum average forward current	I _{F(AV)}	T _C = 105 °C, 180° conduction half sine wave	30	A
Maximum peak one cycle non-repetitive surge current	I _{FSM}	10 ms sine pulse, no voltage reapplied	350	A
I ² t value for fusing (tp=10ms)	I ² t	10 ms sine pulse, no voltage reapplied	612	A ² S

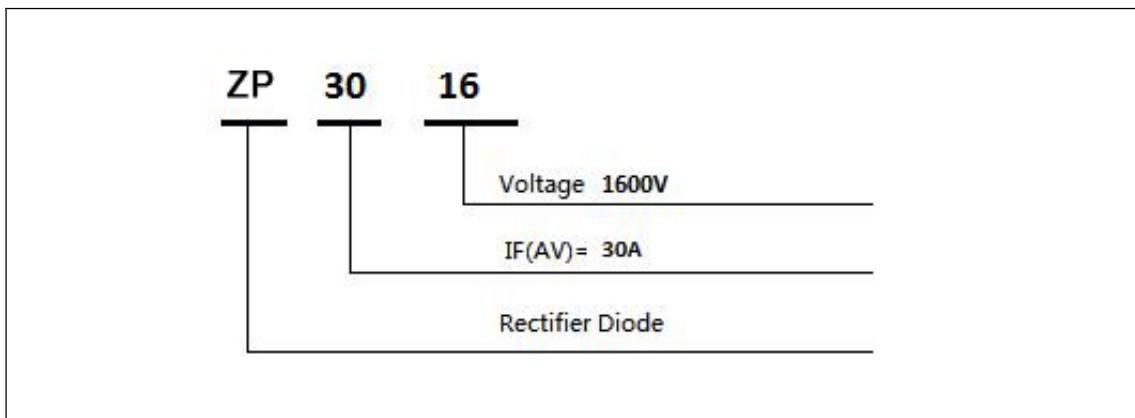
ELECTRICAL CHARACTERISTICS (T=25 °C unless otherwise specified)

Parameter	Symbol	Test Conditions	Value	Unit
Maximum forward voltage drop	V_{FM}	$I_F=30\text{ A}$	1.2	V
Maximum reverse leakage current	I_{RM}	$T_J = 25\text{ }^{\circ}\text{C}$ $V_R = \text{Rated } V_{RRM}$	5	μA
		$T_J = 150\text{ }^{\circ}\text{C}$ $V_R = \text{Rated } V_{RRM}$	1.0	mA

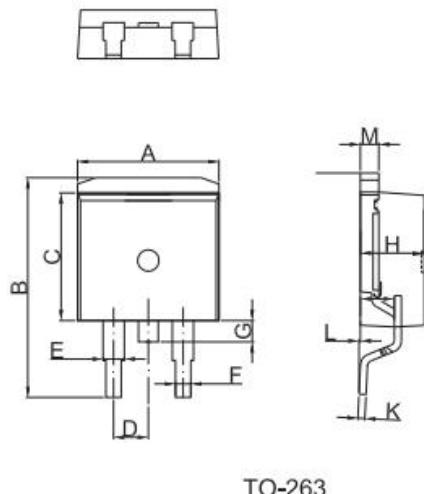
Thermal Resistances

Symbol	Parameter	Value	Unit
$R_{th(j-a)}$	junction to ambient	45	$^{\circ}\text{C/W}$
$R_{th(j-c)}$	Junction to case	0.9	

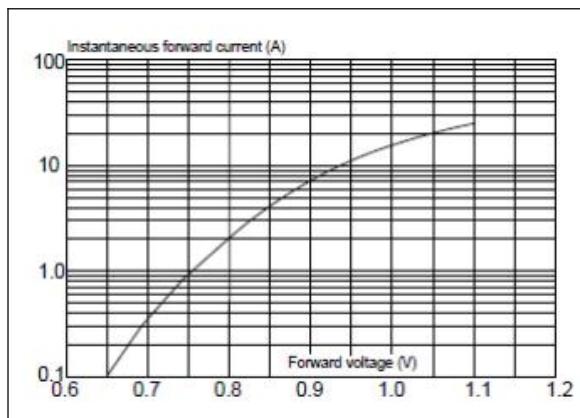
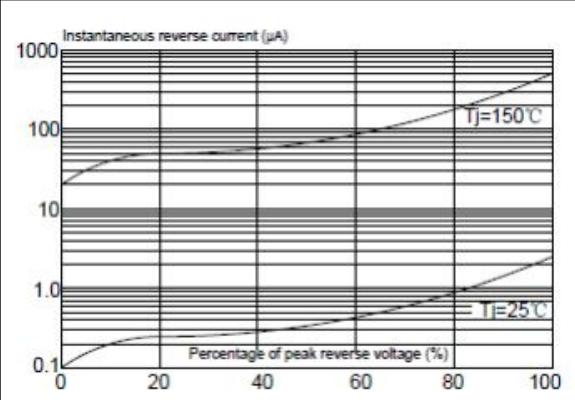
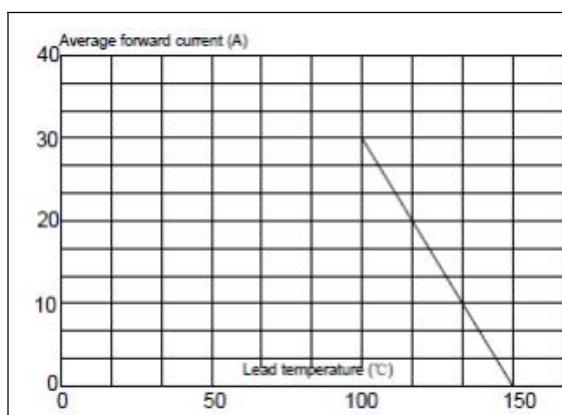
Ordering Information Scheme



TO-263 Package Mechanical Data



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	9.90		10.20	0.390		0.402
B	14.70		15.80	0.579		0.622
C	9.4		9.6	0.37		0.378
D		2.54			0.100	
E	1.20		1.40	0.047		0.055
F	0.75		0.85	0.029		0.033
G			1.75			0.069
H	4.40		4.70	0.173		0.185
J	2.30		2.70	0.091		0.106
K	0.38		0.55	0.015		0.022
L	0	0.10	0.25	0	0.004	0.010
M	1.25		1.35	0.049		0.053

FIG.1 Typical forward Characteristics**FIG.2: Typical reverse Characteristic****FIG.3: Forward current derating curve****FIG.4: Maximum Non-Repetitive peak forward Surge Current**