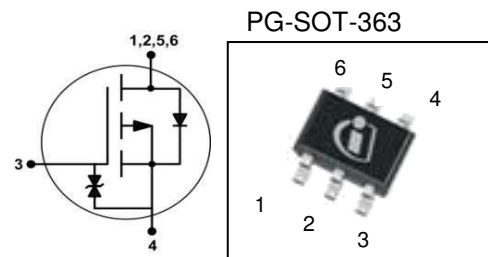


**OptiMOS™-P 3 Small-Signal-Transistor**
**Features**

- P-channel
- Enhancement mode
- Logic level (4.5V rated)
- ESD protected
- Qualified according AEC Q101
- 100% Lead-free; RoHS compliant
- Halogen-free according to IEC61249-2-21


**Product Summary**

$V_{DS}$		30	V
$R_{DS(on),max}$	$V_{GS}=-10\text{ V}$	140	mΩ
	$V_{GS}=-4.5\text{ V}$	230	
$I_D$		-1.5	A



Type	Package	Tape and Reel Information	Marking	Lead Free	Packing
BSD314SPE	PG-SOT-363	L6327: 3000 pcs/ reel	XD5	Yes	Non dry

**Maximum ratings, at  $T_j=25\text{ °C}$ , unless otherwise specified**

Parameter	Symbol	Conditions	Value	Unit
Continuous drain current	$I_D$	$T_A=25\text{ °C}$	-1.5	A
		$T_A=70\text{ °C}$	-1.2	
Pulsed drain current	$I_{D,pulse}$	$T_A=25\text{ °C}$	-6.1	
Avalanche energy, single pulse	$E_{AS}$	$I_D=-1.5\text{ A}$ , $R_{GS}=25\text{ Ω}$	6	mJ
Reverse diode $dv/dt$	$dv/dt$	$I_D=-1.5\text{ A}$ , $V_{DS}=-16\text{ V}$ , $di/dt=-200\text{ A}/\mu\text{s}$ , $T_{j,max}=150\text{ °C}$	6	kV/ $\mu\text{s}$
Gate source voltage	$V_{GS}$		$\pm 20$	V
Power dissipation <sup>1)</sup>	$P_{tot}$	$T_A=25\text{ °C}$	0.5	W
Operating and storage temperature	$T_j, T_{stg}$		-55 ... 150	°C
ESD Class		JESD22-A114 -HBM	1000V to 2000V	
Soldering Temperature			260 °C	°C
IEC climatic category; DIN IEC 68-1			55/150/56	°C